



Appl. No. 09/894,351
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Reply to Office action of April 21, 2004
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FIG. 1

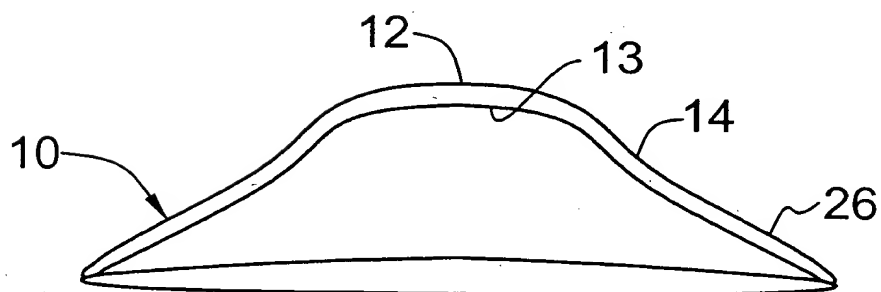
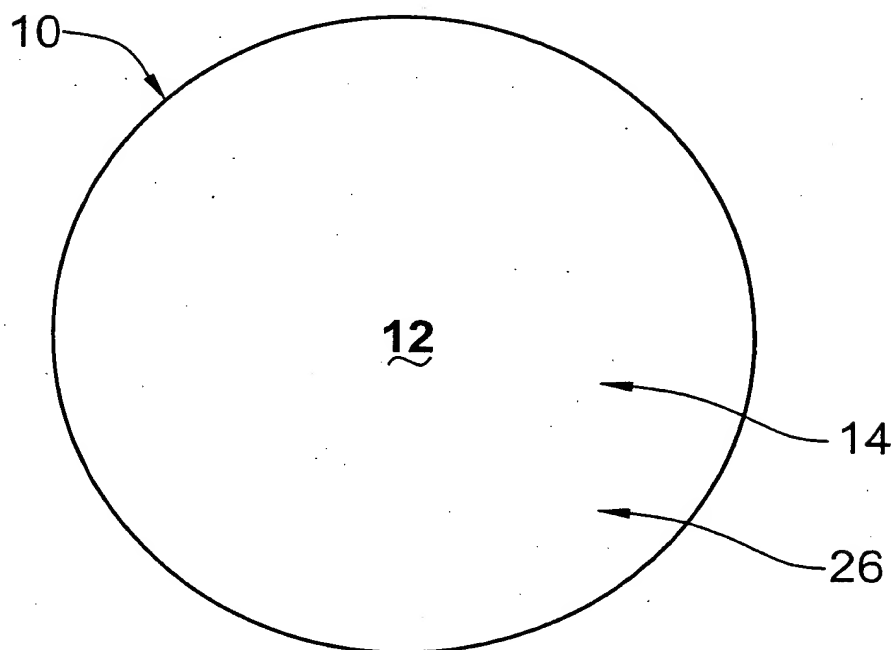


FIG. 2



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FIG. 3

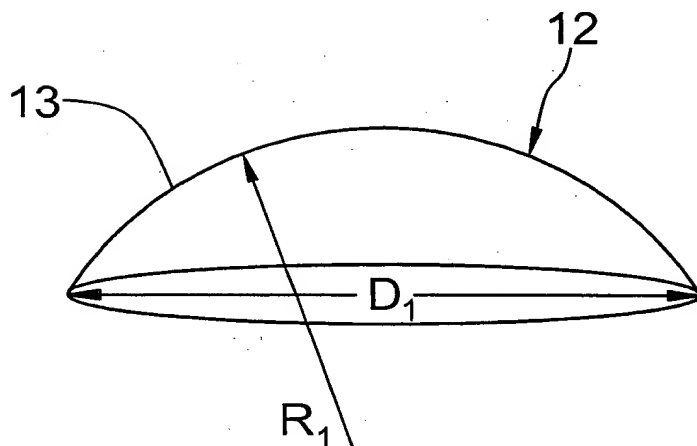


FIG. 5A

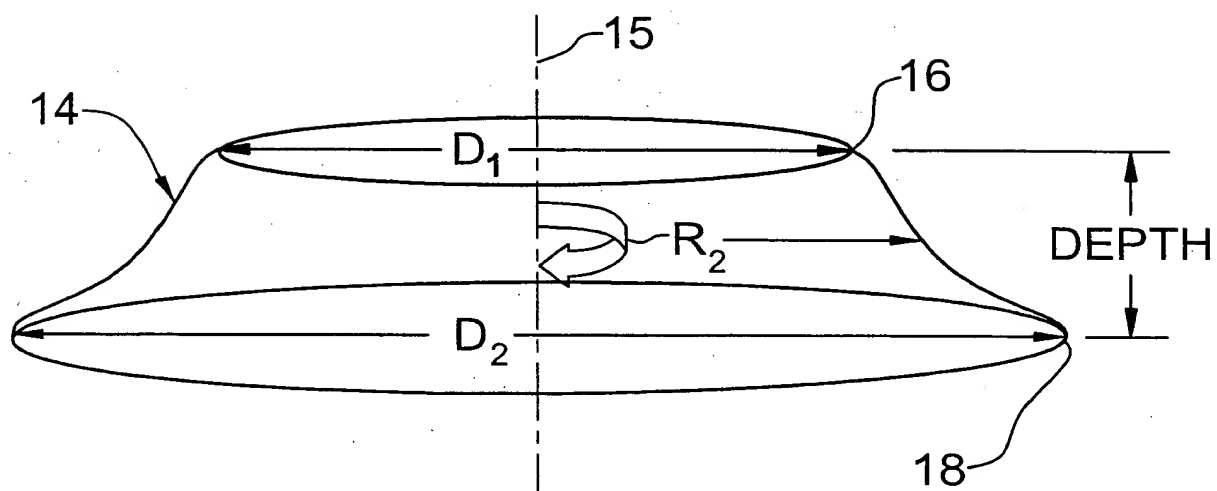




FIG. 4A

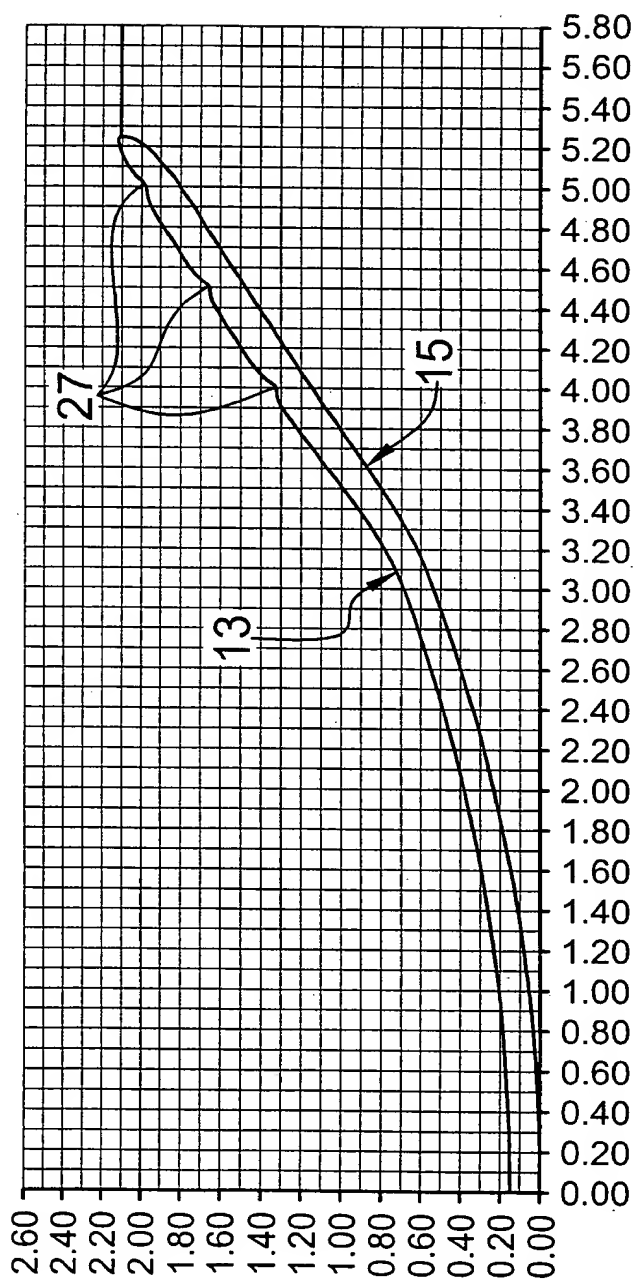
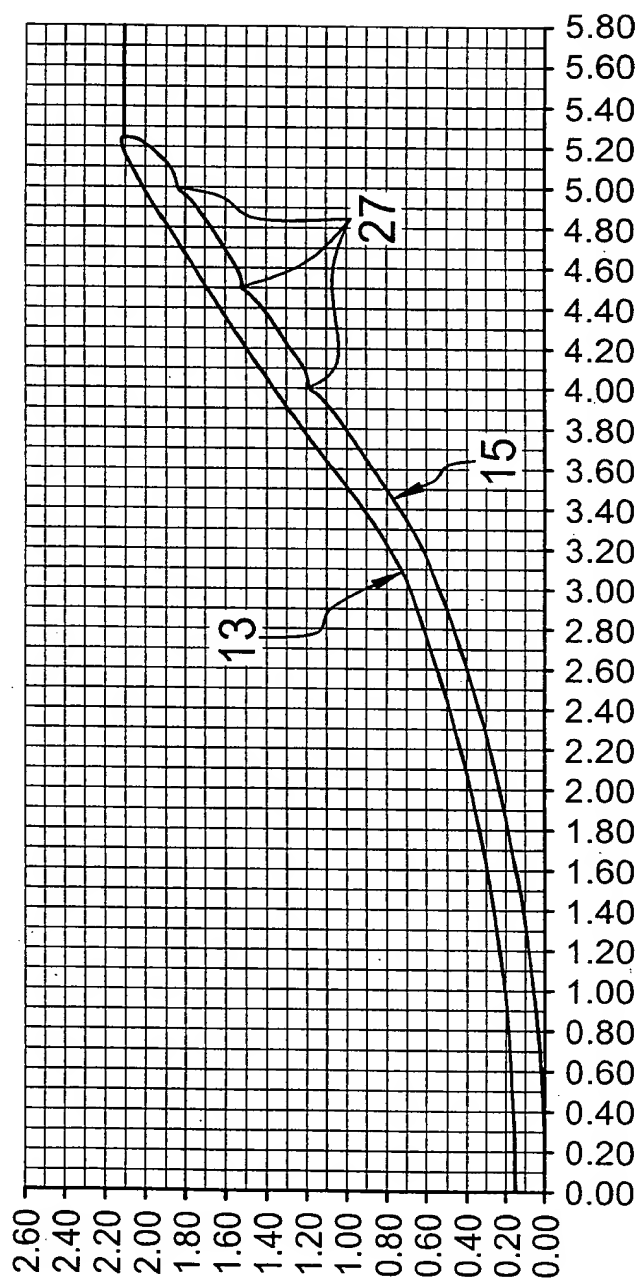


FIG. 4B





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FIG. 7

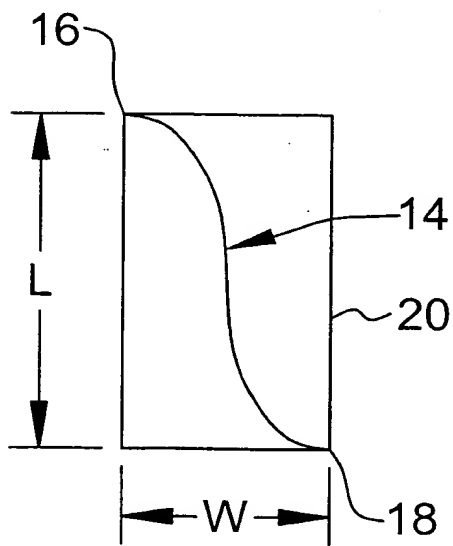
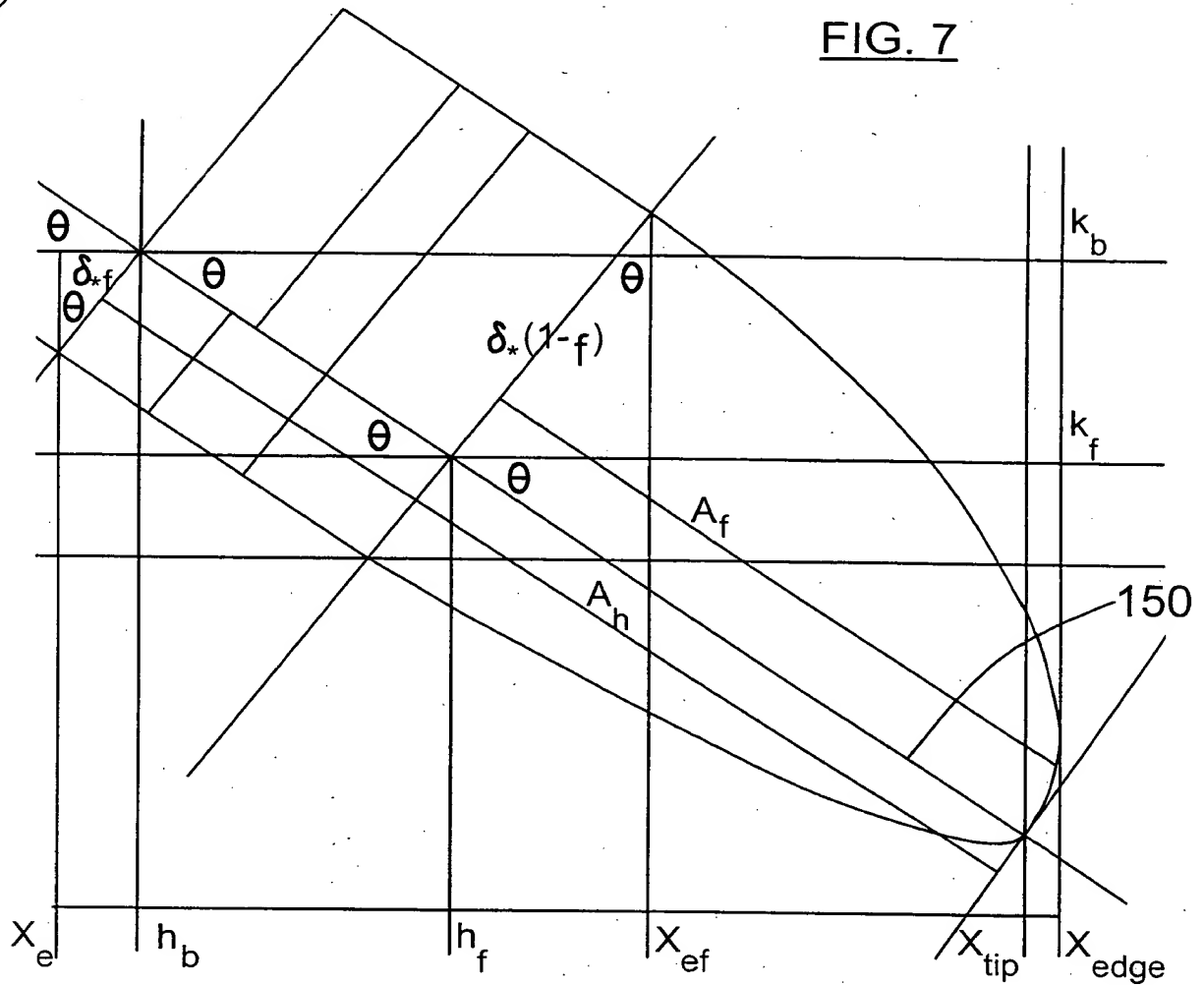


FIG. 5B

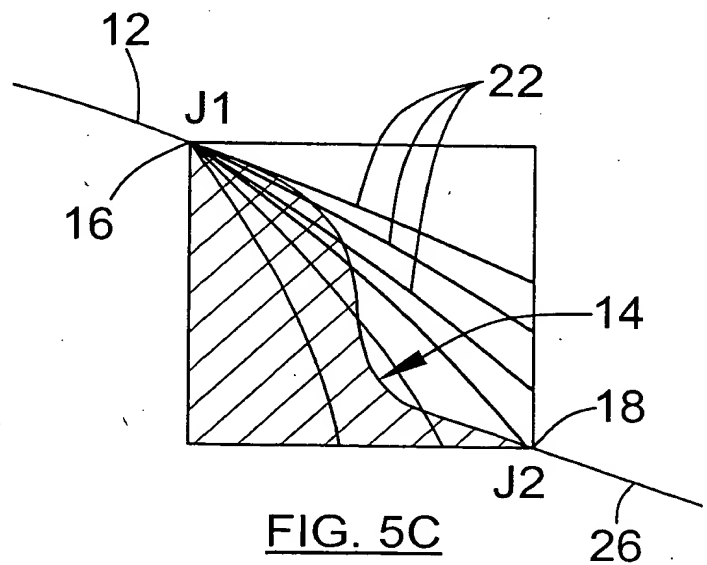
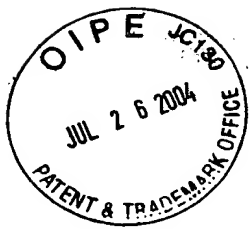


FIG. 5C



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FIG. 6

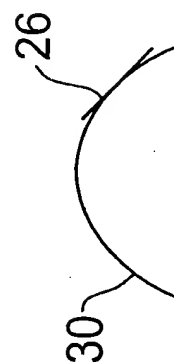
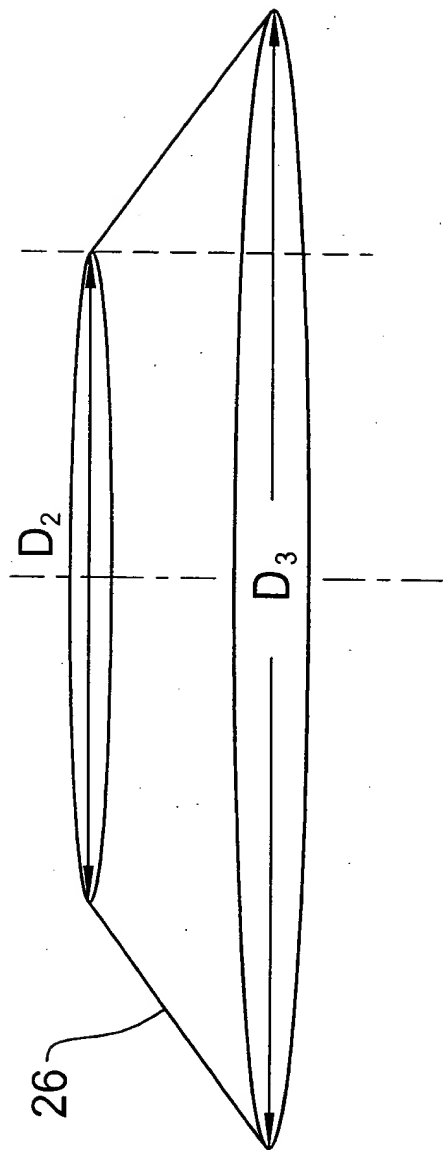


FIG. 8A

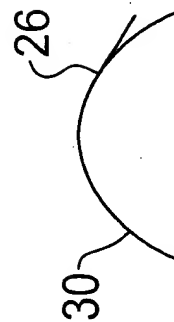


FIG. 8B

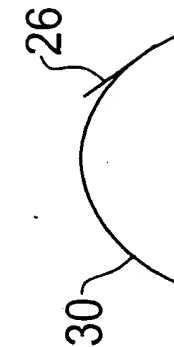


FIG. 8C



FIG. 9A

BC	selected bc (6.9-10.4/0.1) x <u>208</u> (7.70-9.1/.05)	8.40	Suggested Base Curve is 8.4	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	<u>210</u> 3.00		corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	7.58
MAT	<u>212</u> Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.994
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	<u>214</u> 0.50	Front Surface central radius = 8.37	Volume between S curve and cornea (uL) = 1.739
$\Delta 1$	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>222</u> 0.14	True center thickness (mm) = 0.152 <u>224</u>	Volume between pretouch Landing Zone and cornea (uL) = 0.718
$\Delta 2$	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.18	True offset between landing zones at J2 = 0.179	TOTAL VOLUME = 3.451(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	<u>216</u> -35.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.040	Diameter where LZ would make tangential touch = 9.08
D	selected lens diameter mm (8.0-12.9/0.1)	<u>209</u> 10.50	Diameter <u>206</u> recommended from HVID = 10.6	Dia giving desired LZ lift = 10.42
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.500	Recommended depth (mm) S curve for desired correction @6u/D = 0.510 mm	Edge lift at selected diameter = 0.094

220

218



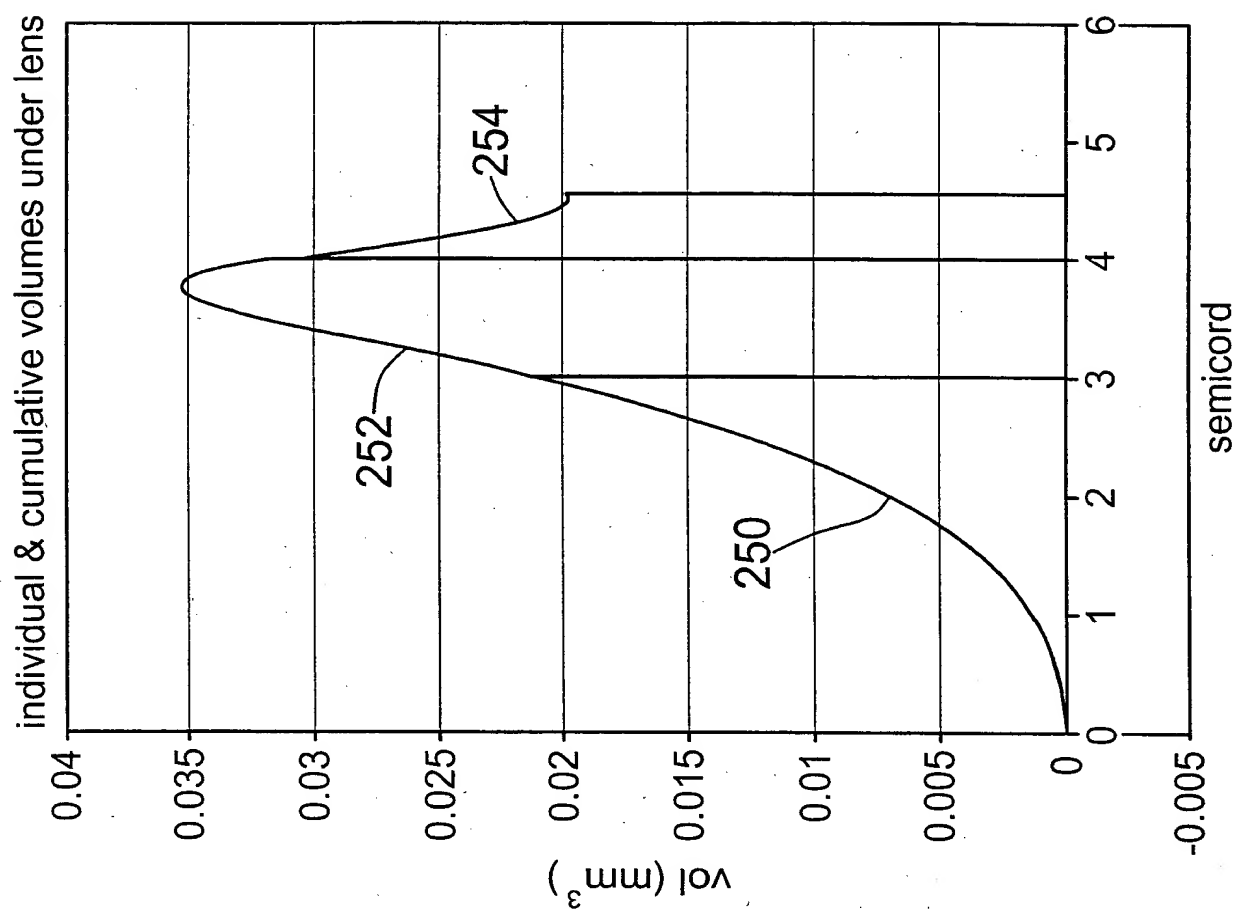
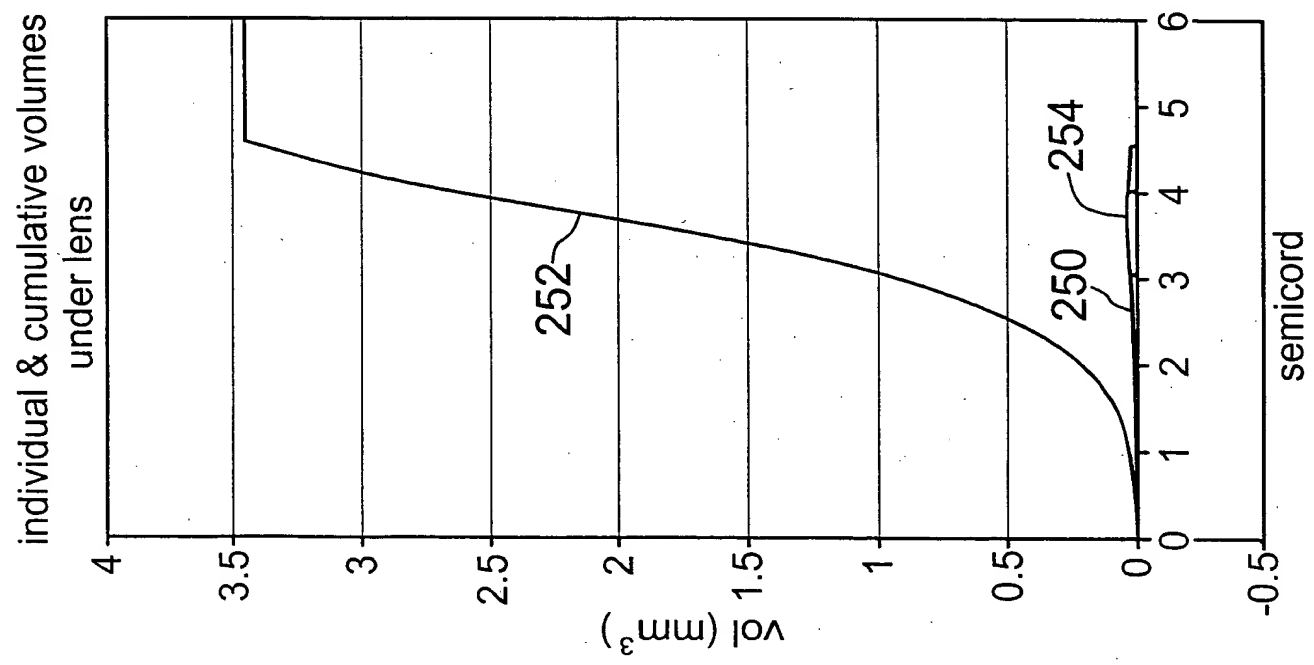
FIG. 9B

BC	200		
	202		
J1	204		
	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-4.50	0.5	11.6
MAT	Actual power (D) difference between bc and apical cornea = -4.35	Desired edge lift (mm) when landed at full Diameter = 0.083	1.45
P	Recommended diameter for lentic = 8.024	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 8.106	0.40	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 8.068	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS: max thickness peripheral to J1 before lentic (in mm > Delta 2) see below
A	Estimated elevation at J2 = 0.070	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm > Delta 1) see below
SD	0.006	0.25	0.01



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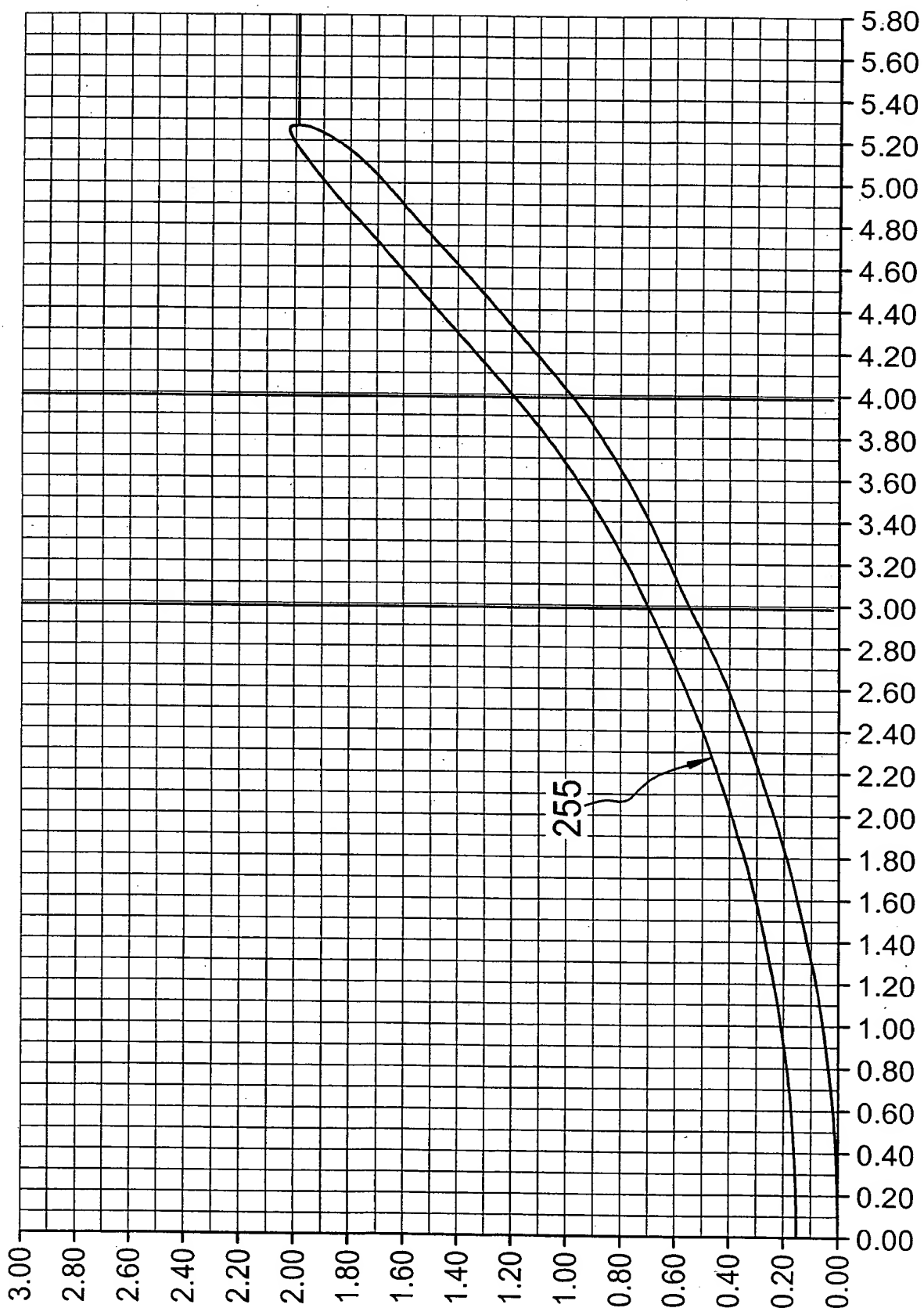
FIG. 11





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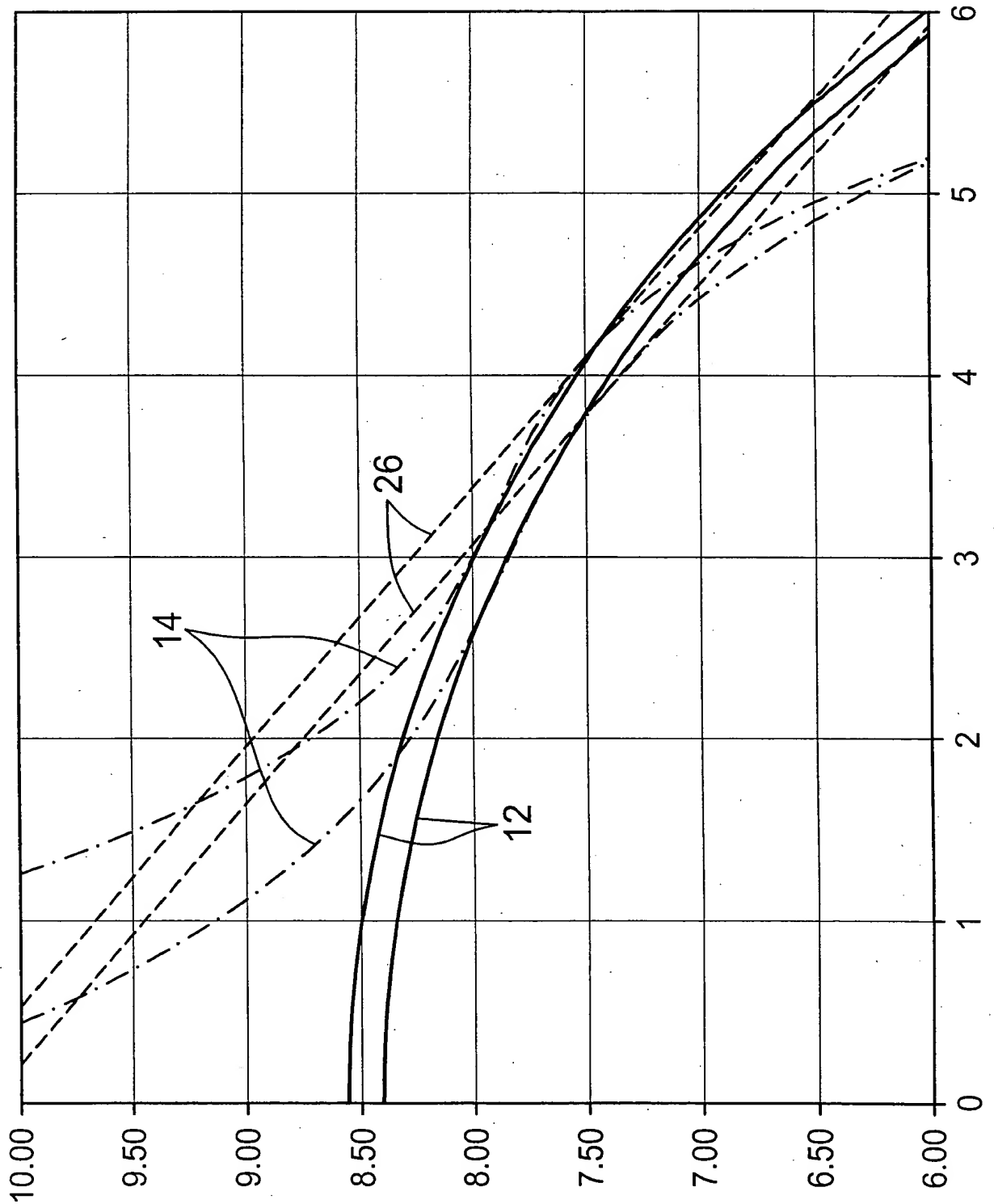
FIG. 12





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FIG. 13



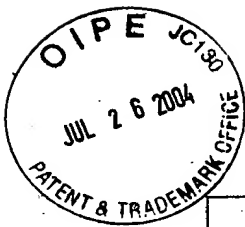


FIG. 14A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/0.05)	8.90	Suggested Base Curve is 8.9	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	3.00	2B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	8.03
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.926
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 8.88	Volume between S curve and cornea (uL) = 1.742
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>232</u> 0.20	True center thickness (mm) = 0.214	Volume between pretouch Landing Zone and cornea (uL) = 0.867
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.12	True offset between landing zones at J2 = 0.119	TOTAL VOLUME = 3.534(uL)
A	Angle of the landing zone (-25.5 to -50.0/0.5)	-33.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.041	Diameter where LZ would make tangential touch = 9.26
D	selected lens diameter mm (8.0-12.9/0.1)	10.40	Diameter recommended from HVID = 10.4	Dia giving desired LZ lift = 10.68
SD	Selected depth of the S curve mm (.15-1.0/0.05) x (0.3-0.65/0.025) use next smaller than est.	0.450	Recommended depth (mm) S curve for desired correction @6u/D = 0.457 mm	Edge lift at selected diameter = 0.071

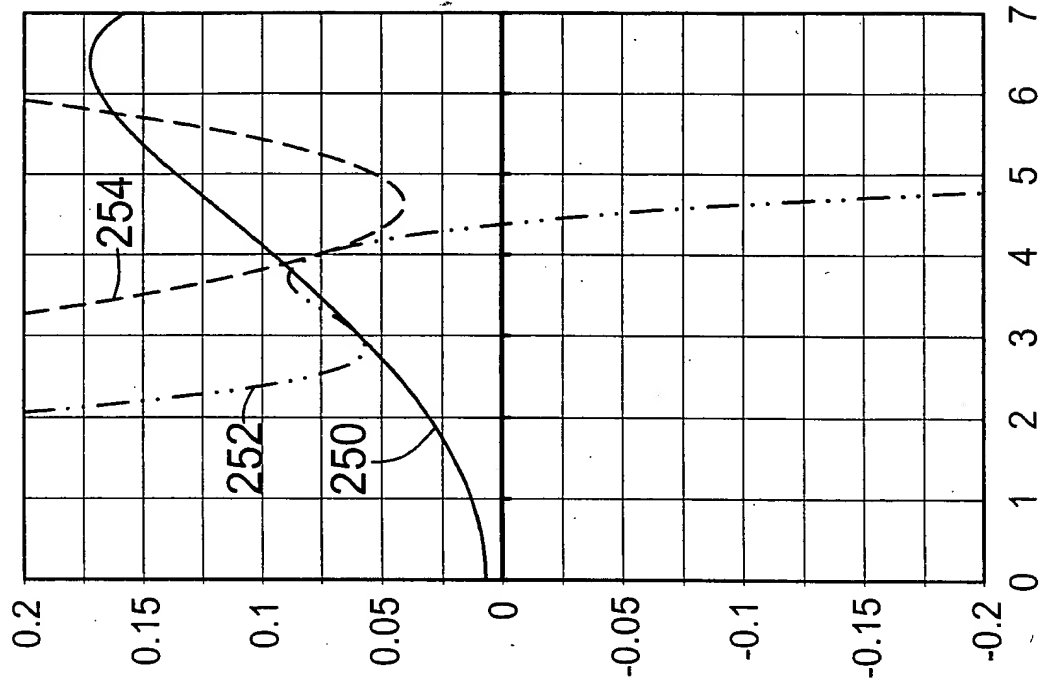
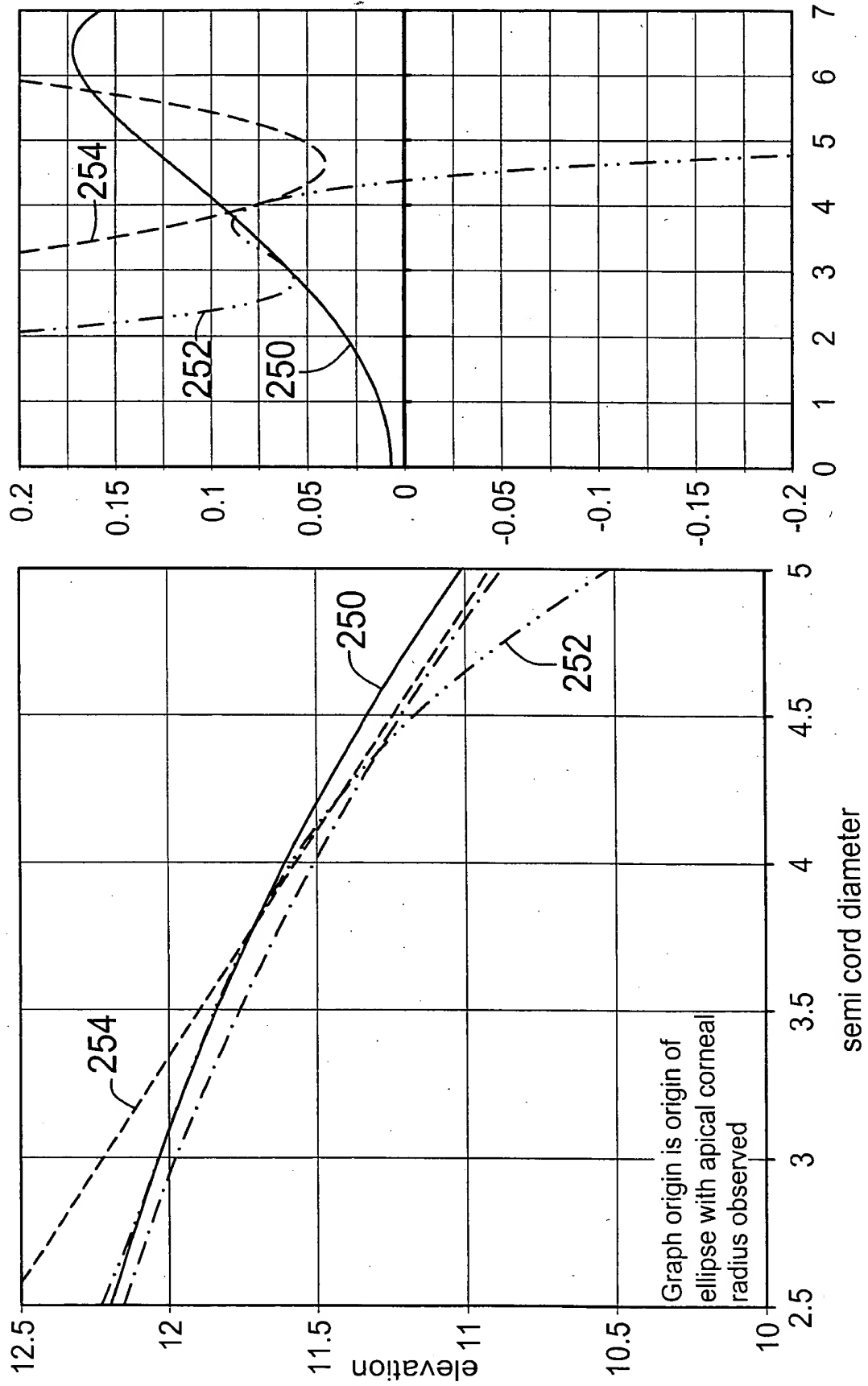


FIG. 14B

230			
BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-4.00	0.6	11.4
MAT	Actual power (D) difference between bc and apical cornea = -4.11	Desired edge lift (mm) when landed at full Diameter = 0.08	1.45
P	Recommended diameter for lentic = 6.006	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 8.457	0.40	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 8.430	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS-max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.075	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	0.25	0.01



FIG. 15

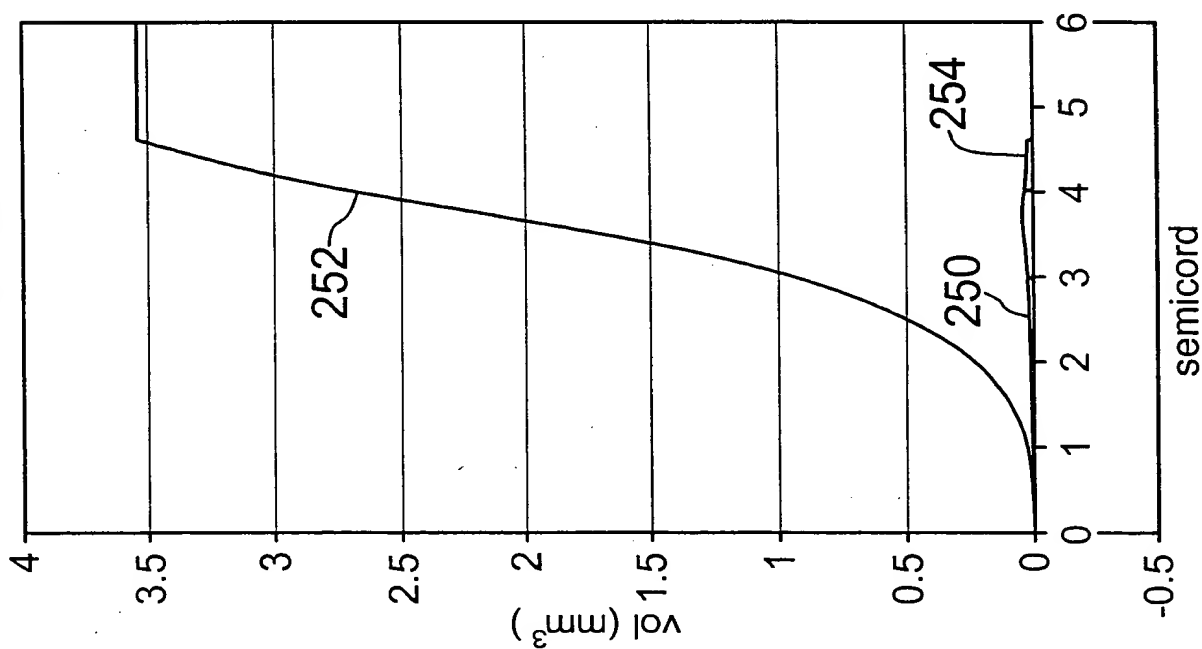




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FIG. 16

individual & cumulative volumes
under lens



individual & cumulative volumes under lens

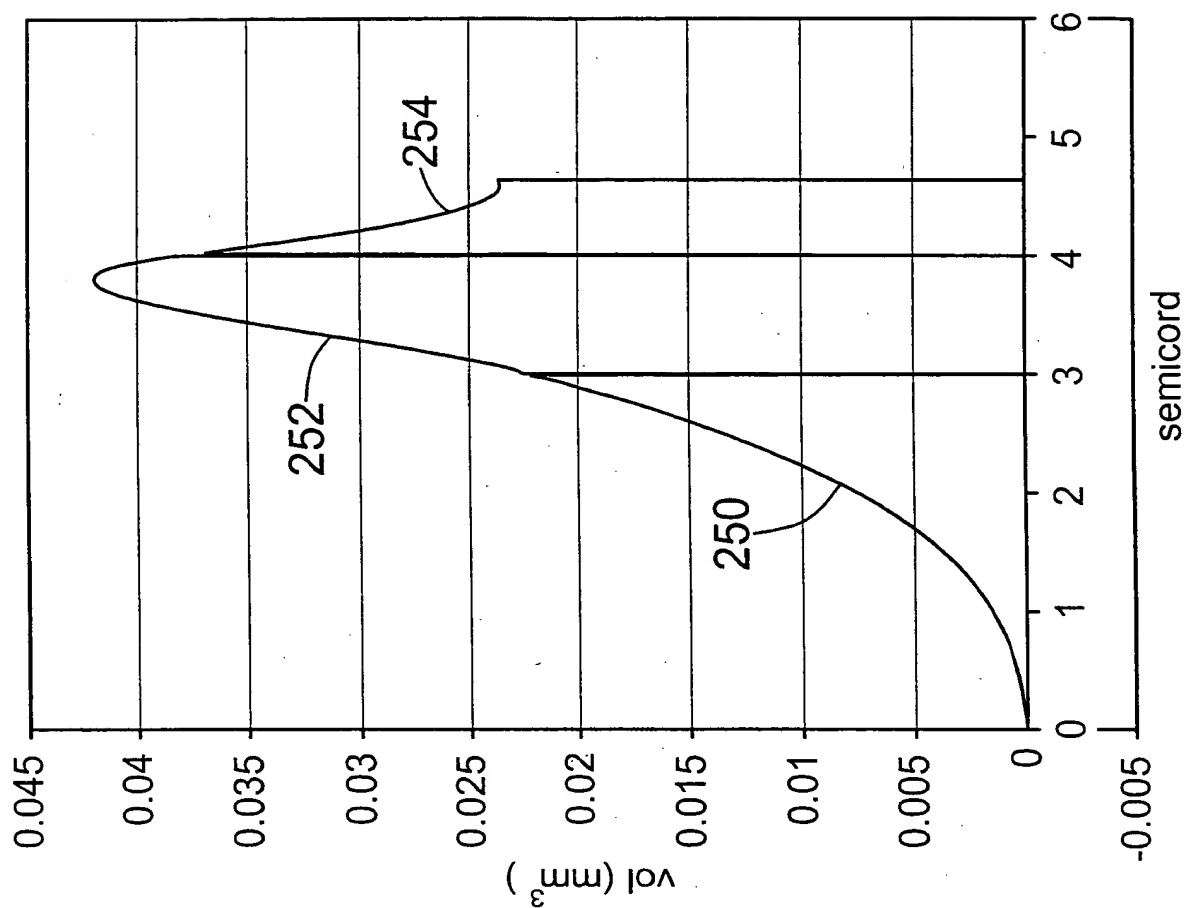
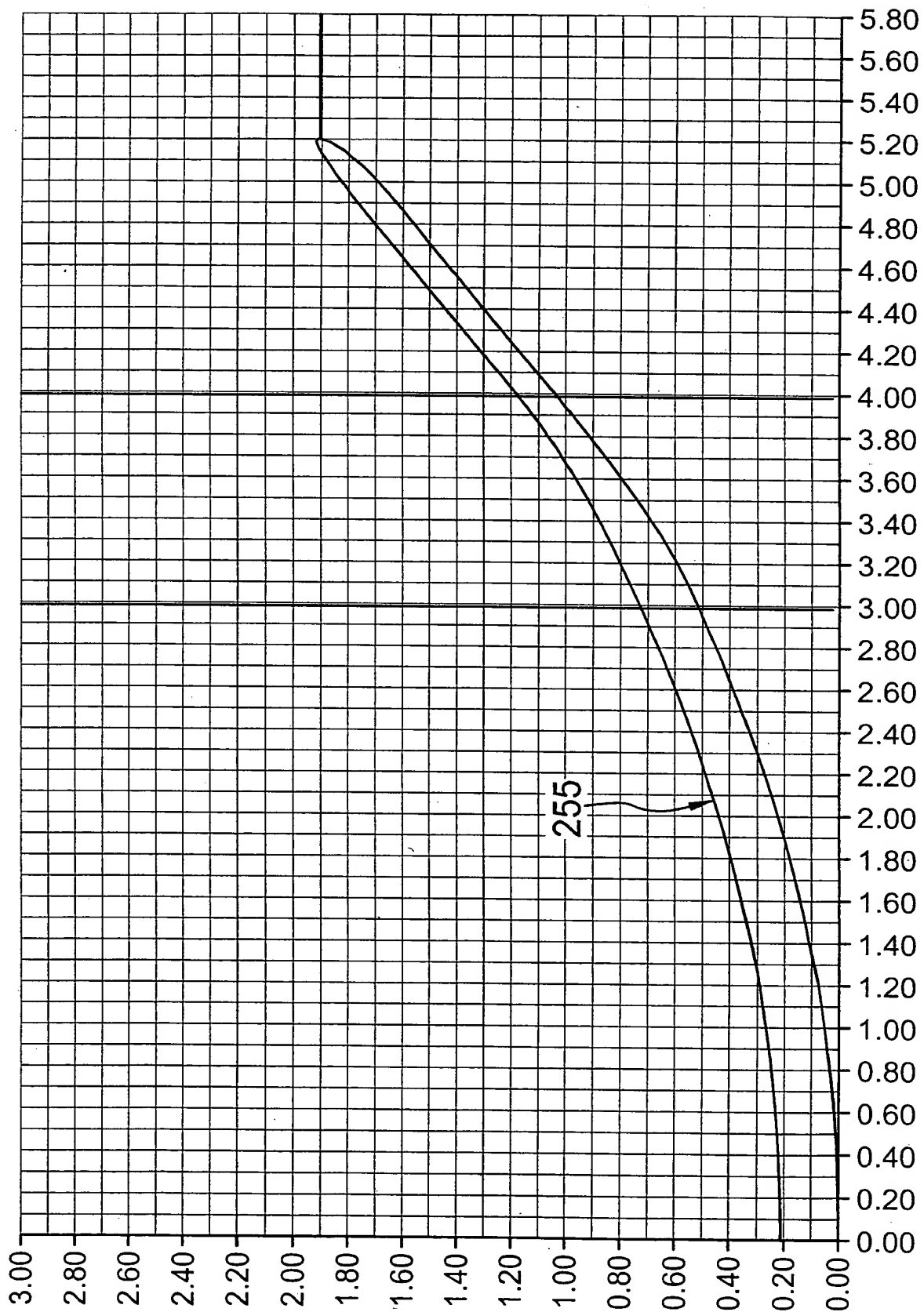




FIG. 17





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FIG. 18

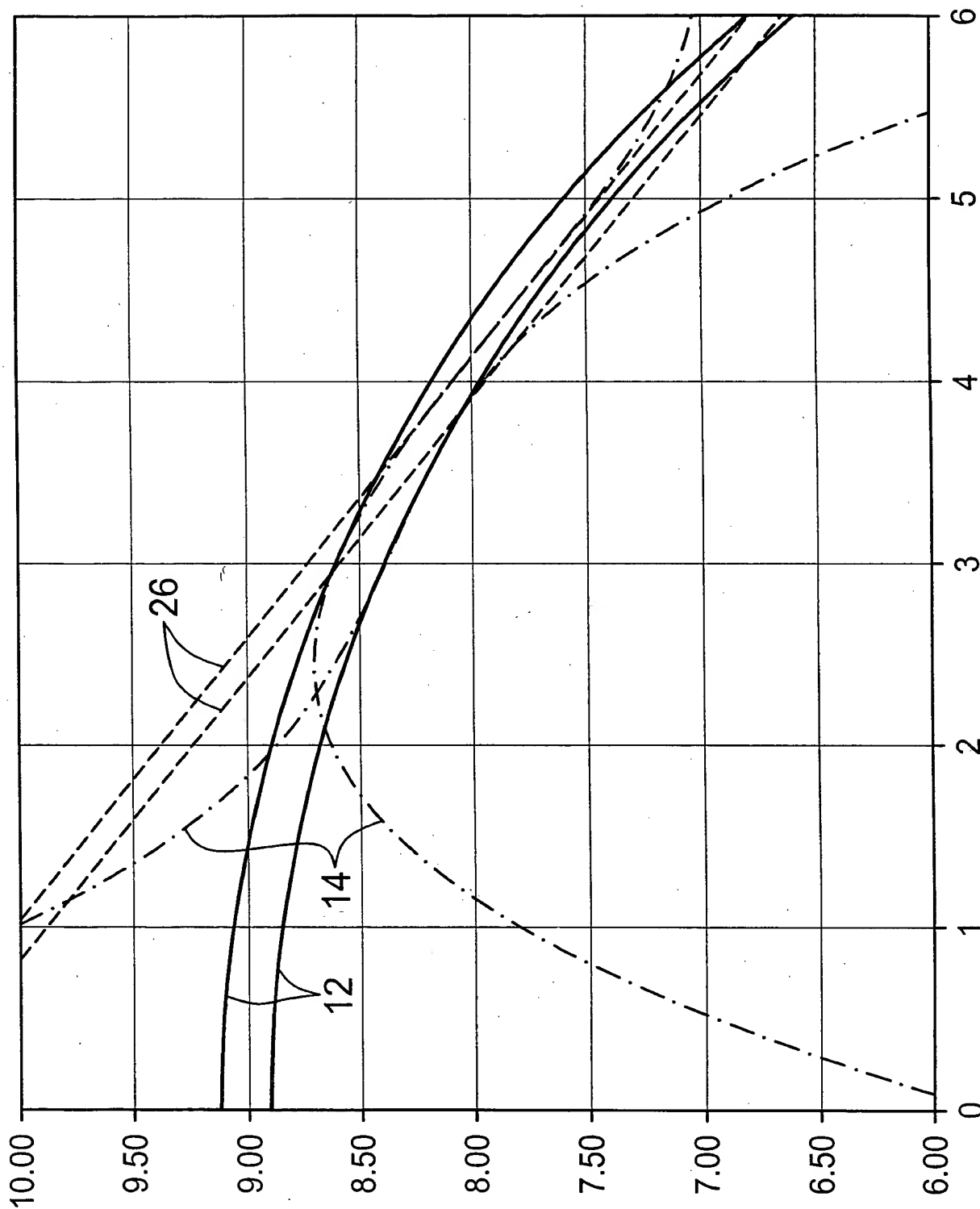




FIG. 19A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/.05)	8.35	Suggested Base Curve is 8.3	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	210 2.50	3B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	2.00	EYE	7.25
MAT	212 Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.699
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	214 0.50	Front Surface central radius = 8.32	Volume between S curve and cornea (uL) = 2.812
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	0.14	True center thickness (mm) = 0.148	Volume between pretouch Landing Zone and cornea (uL) = 0.122
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.18	True offset between landing zones at J2 = 0.179	TOTAL VOLUME = 3.633(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-38.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.038	Diameter where LZ would make tangential touch = 9.21
D	selected lens diameter mm (8.0-12.9/0.1)	10.20	Diameter recommended from HVID = 10.2	Dia giving desired LZ lift = 10.53
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	1.116	Recommended depth (mm) S curve for desired correction @6u/D = 1.116 mm	Edge lift at selected diameter = 0.071



FIG. 19B

	200	202	204
BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-6.12	0.4	11.2
MAT	Actual power (D) difference between bc and apical cornea = -6.13	Desired edge lift (mm) when landed at full Diameter = 0.09272	1.45
P	Recommended diameter for lentic = 6.784	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 7.615	0.40	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 7.541	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS-max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.040	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	0.25	0.01

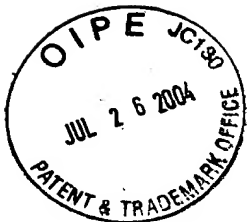
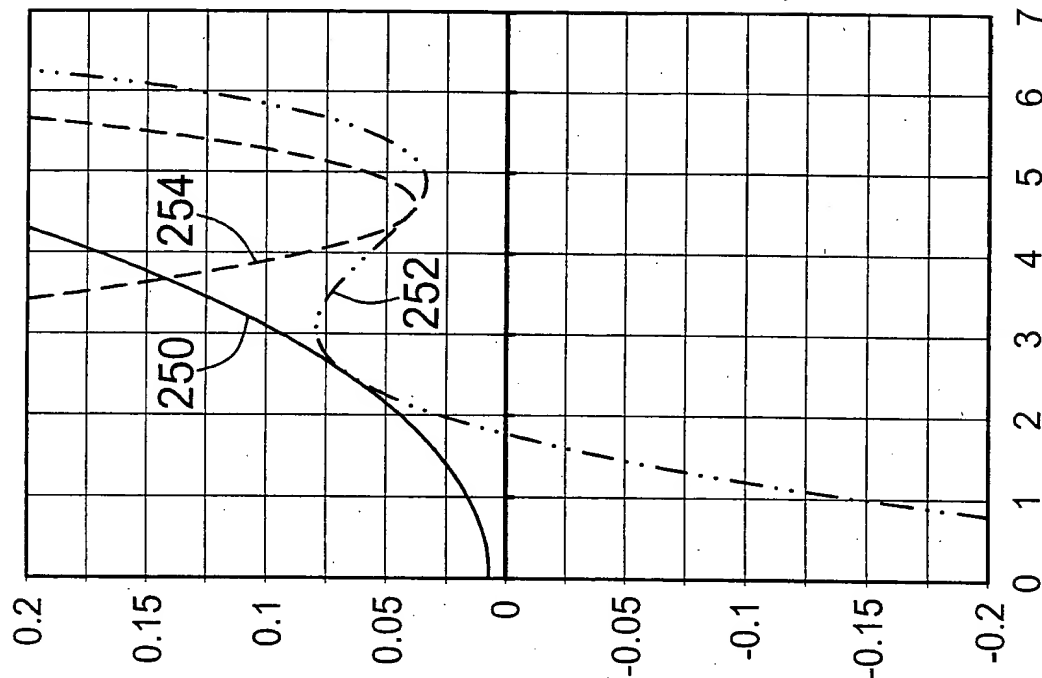
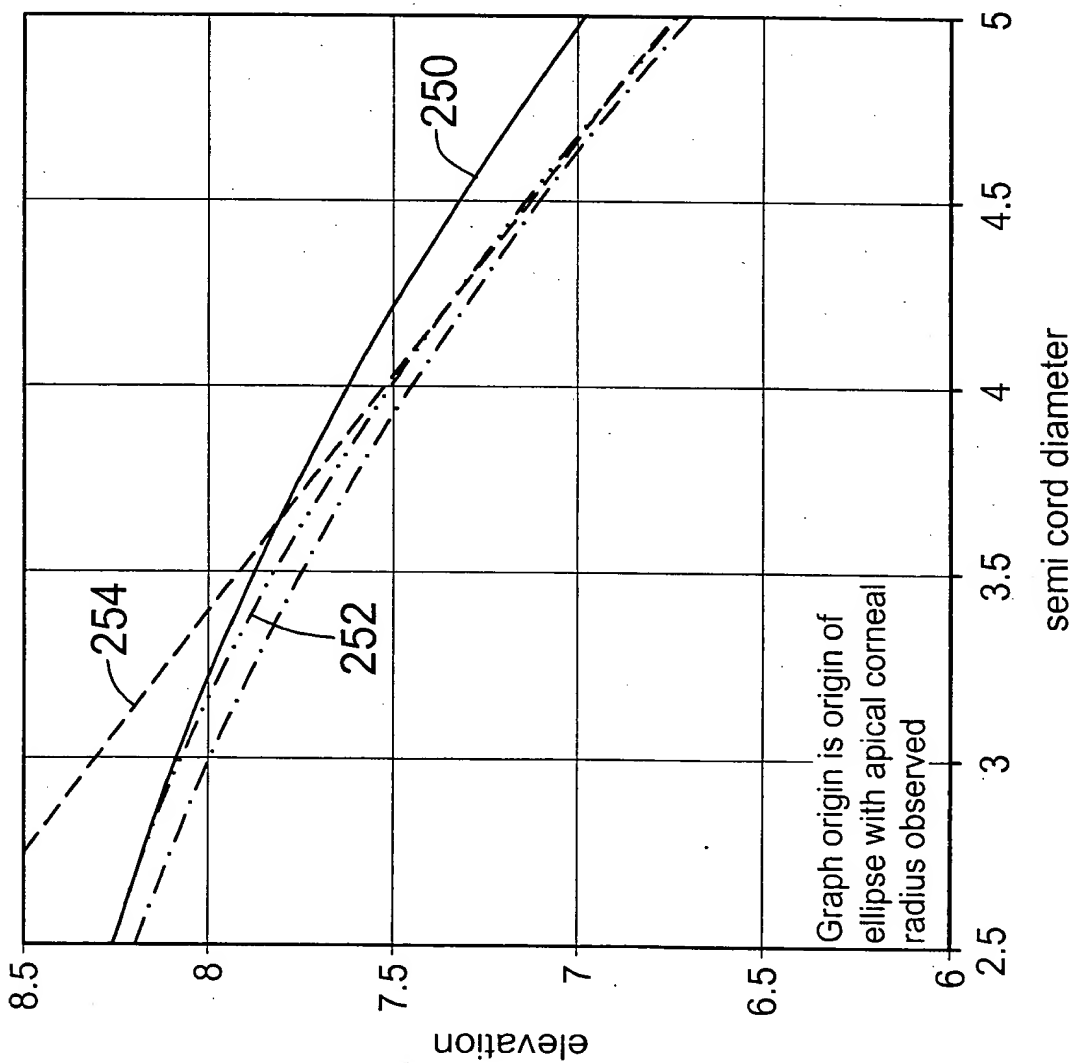


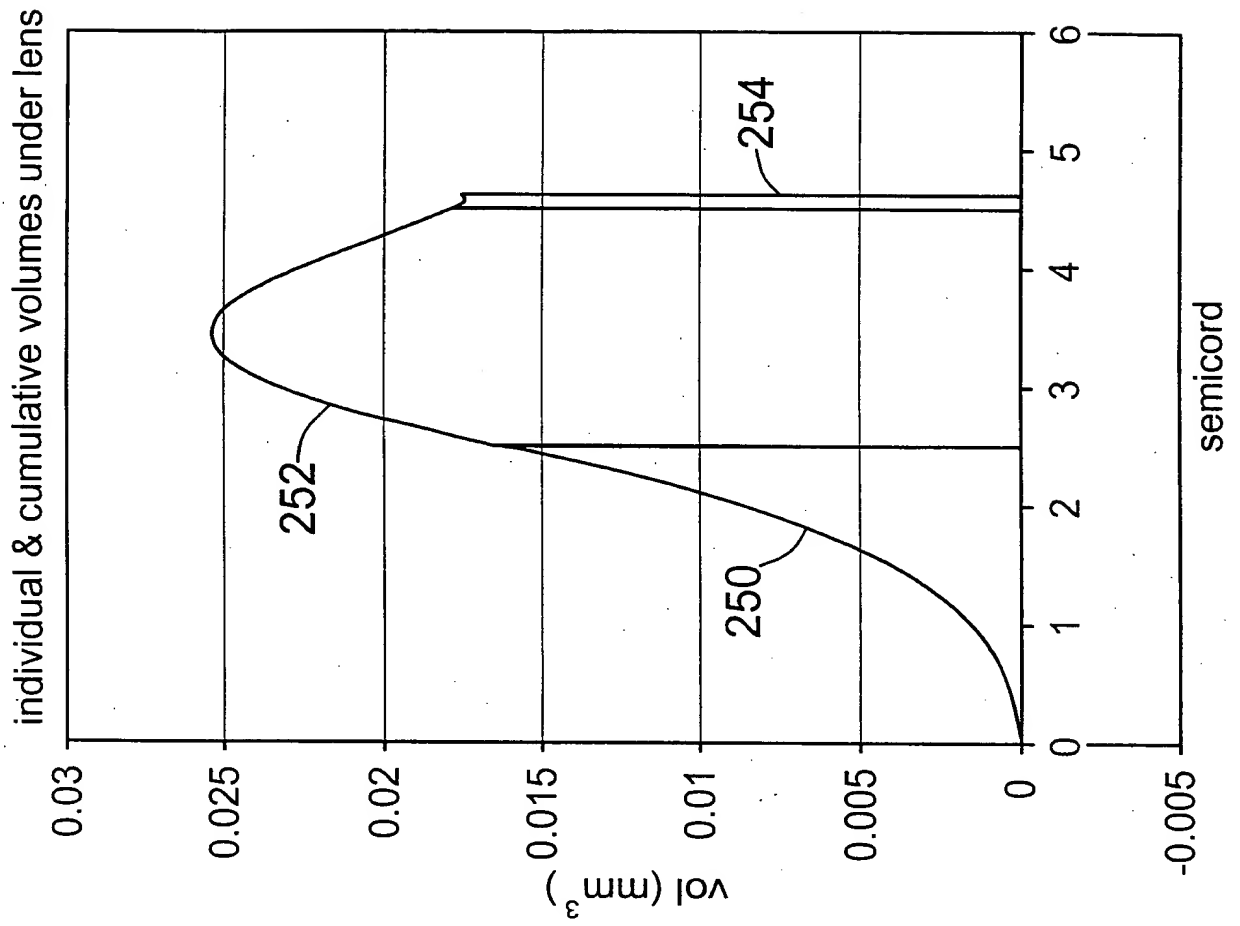
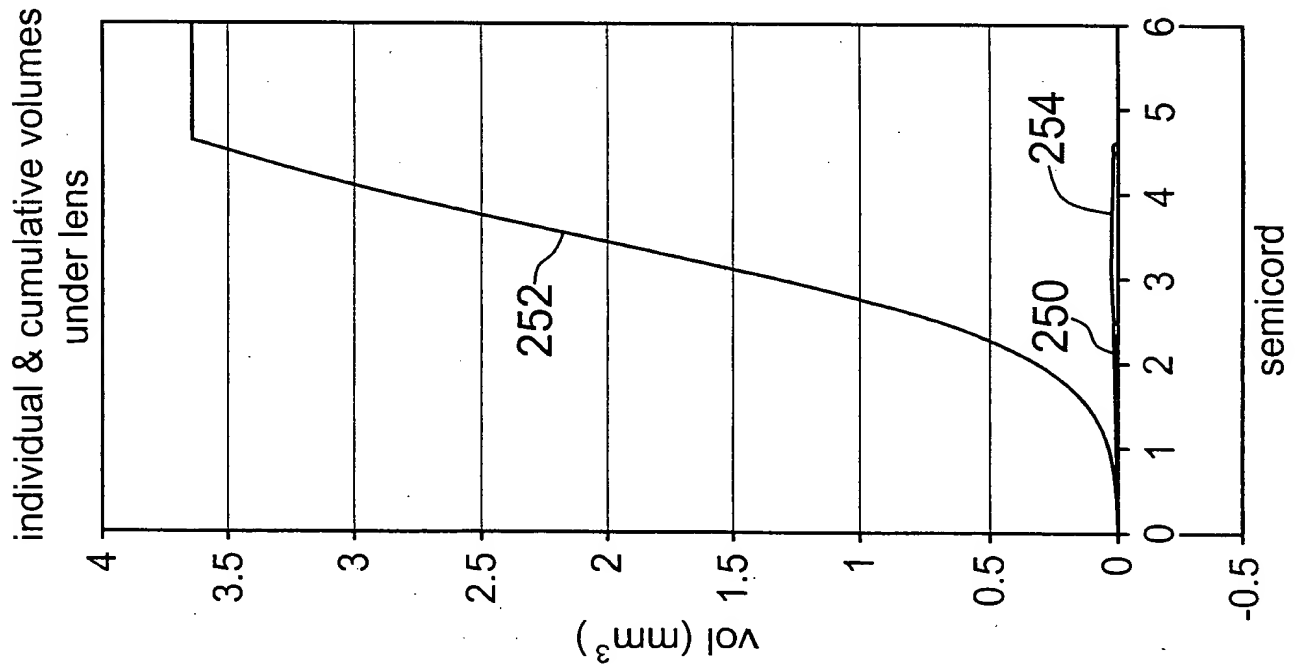
FIG. 20

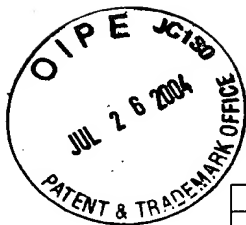




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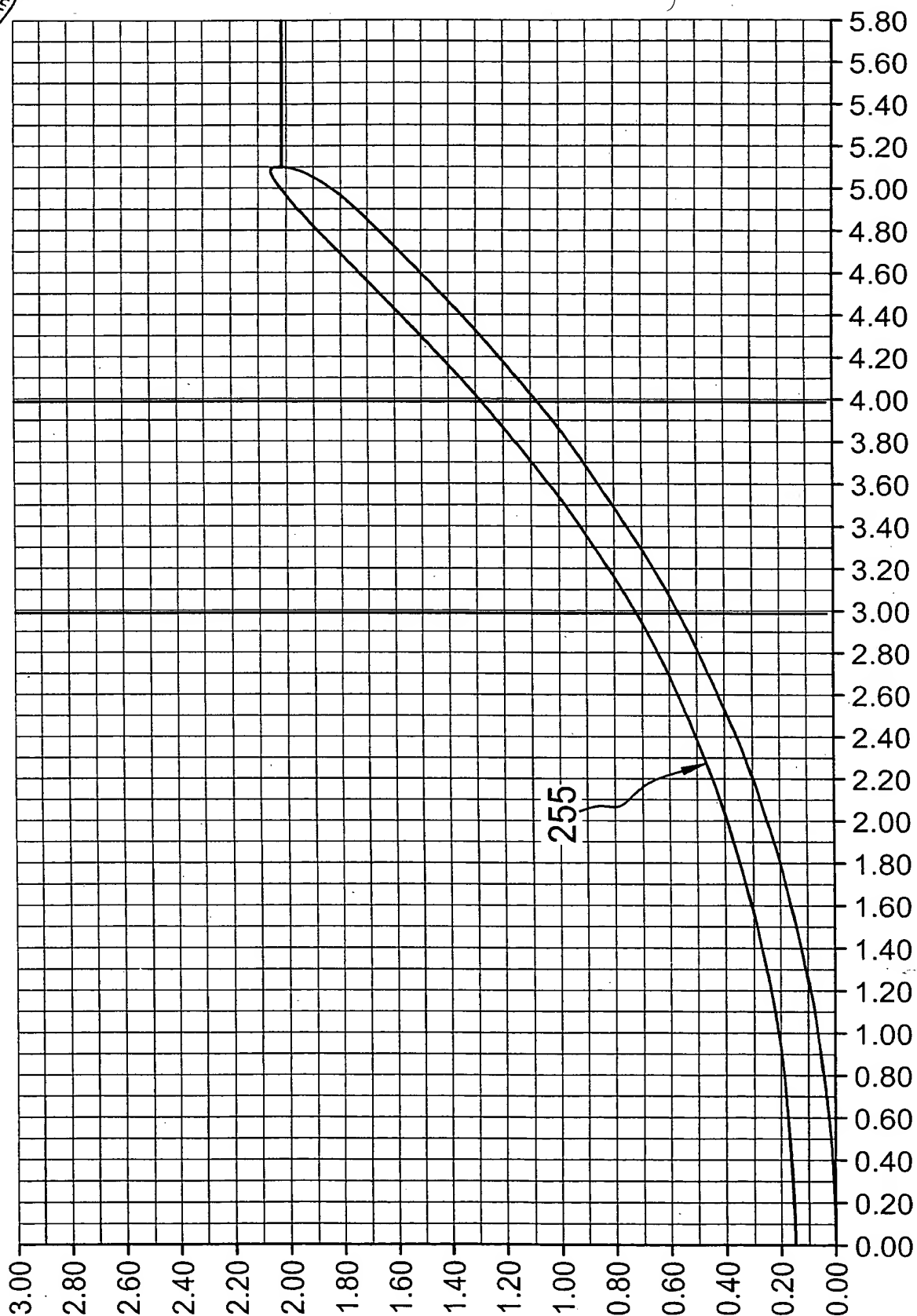
FIG. 21





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FIG. 22





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FIG. 23

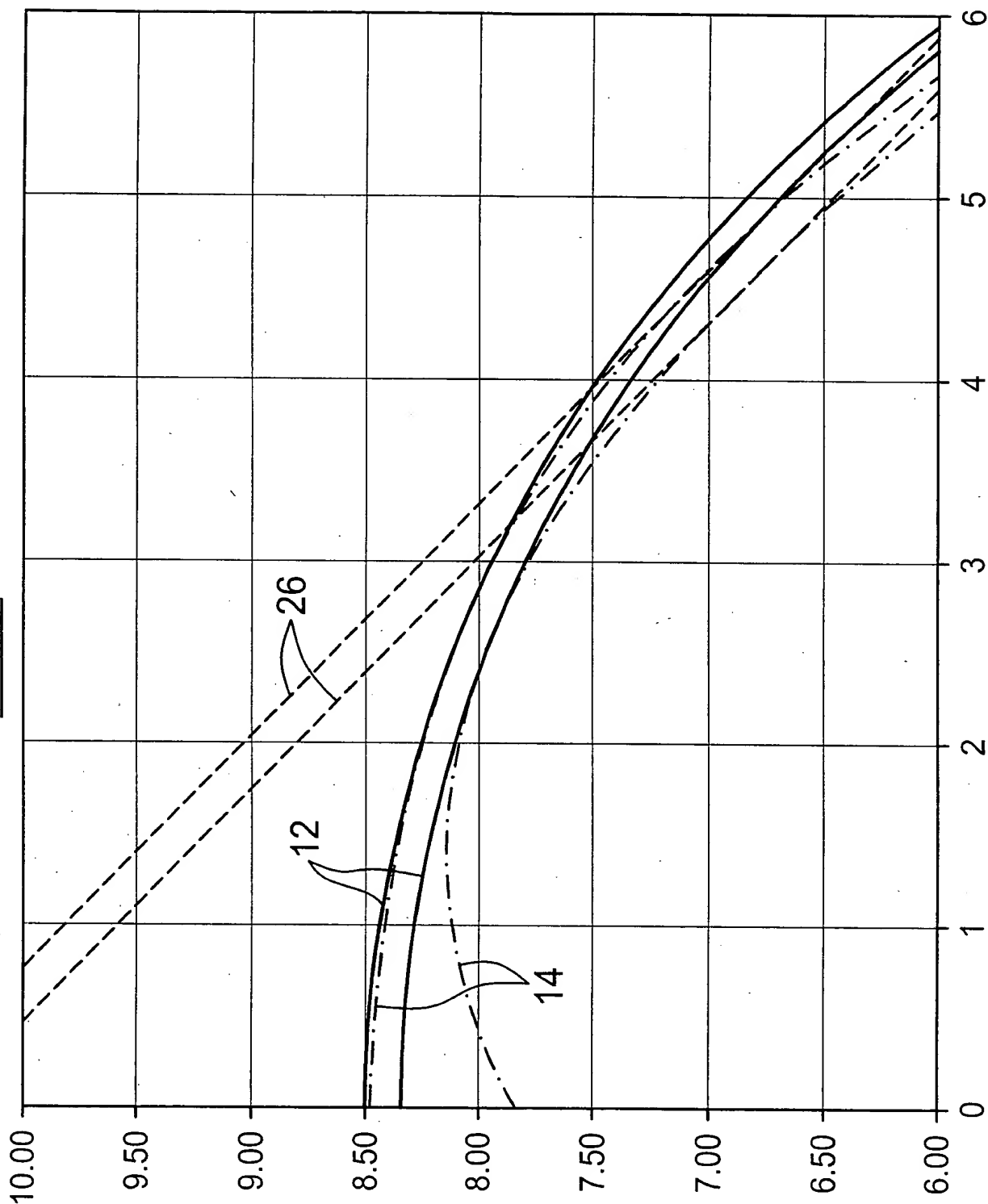




FIG. 24A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/.05)	9.30	Suggested Base Curve is 9.3	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	3.00	4B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	8.13
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 1.213
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 9.24	Volume between S curve and cornea (uL) = 2.389
$\Delta 1$	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>222</u> 0.08	True center thickness (mm) = 0.088	Volume between pretouch Landing Zone and cornea (uL) = 1.360
$\Delta 2$	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	<u>242</u> 0.22	True offset between landing zones at J2 = 0.217	TOTAL VOLUME = 4.963(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-35.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.050	Diameter where LZ would make tangential touch = 9.47
D	selected lens diameter mm (8.0-12.9/0.1)	<u>209</u> 10.90	Diameter recommended from HVID = 10.9	Dia giving desired LZ lift = 10.69
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.450	Recommended depth (mm) S curve for desired correction @6u/D = 0.462 mm	Edge lift at selected diameter = 0.107

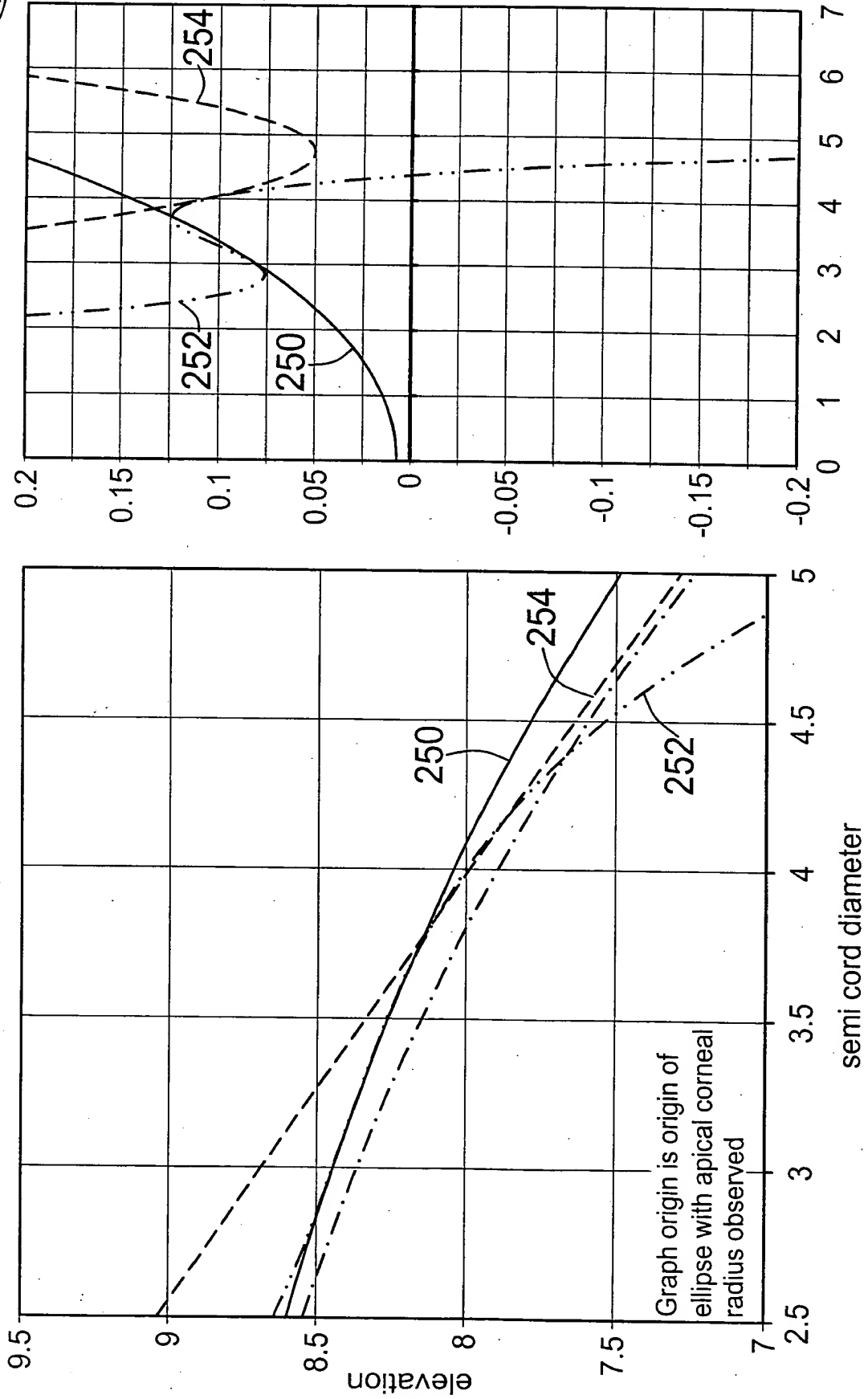


FIG. 24B

BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-5.25	0.3	11.9
MAT	Actual power (D) difference between bc and apical cornea = -5.22	Desired edge lift (mm) when landed at full Diameter = 0.0875	1.45
P	Recommended diameter for lentic = 9.791	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 10.059	243 244 2.00	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 10.191	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS-max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.106	2.00	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	245 0.40	0.01



FIG. 25

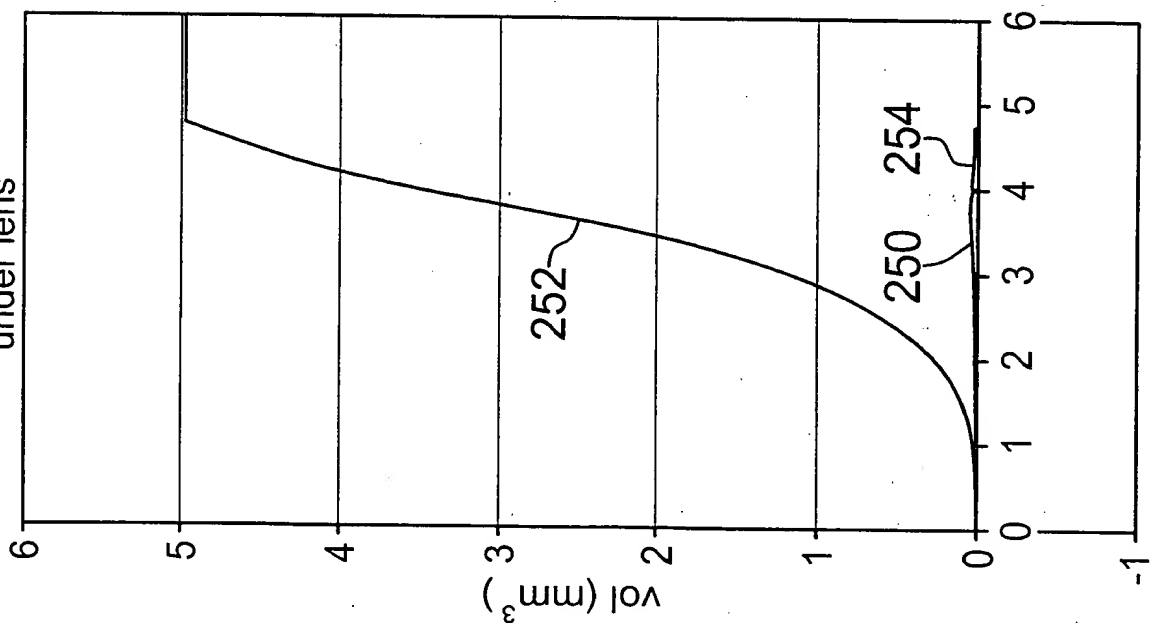




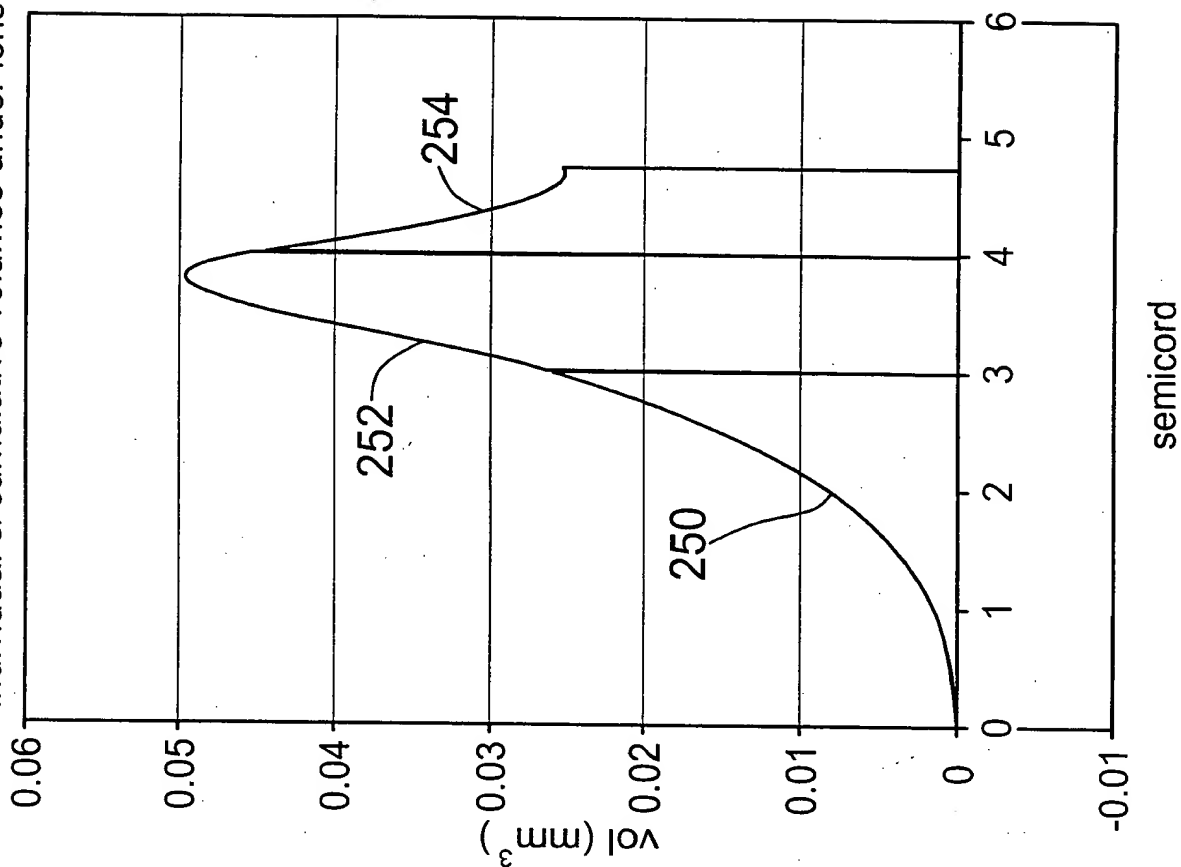
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FIG. 26

individual & cumulative volumes
under lens



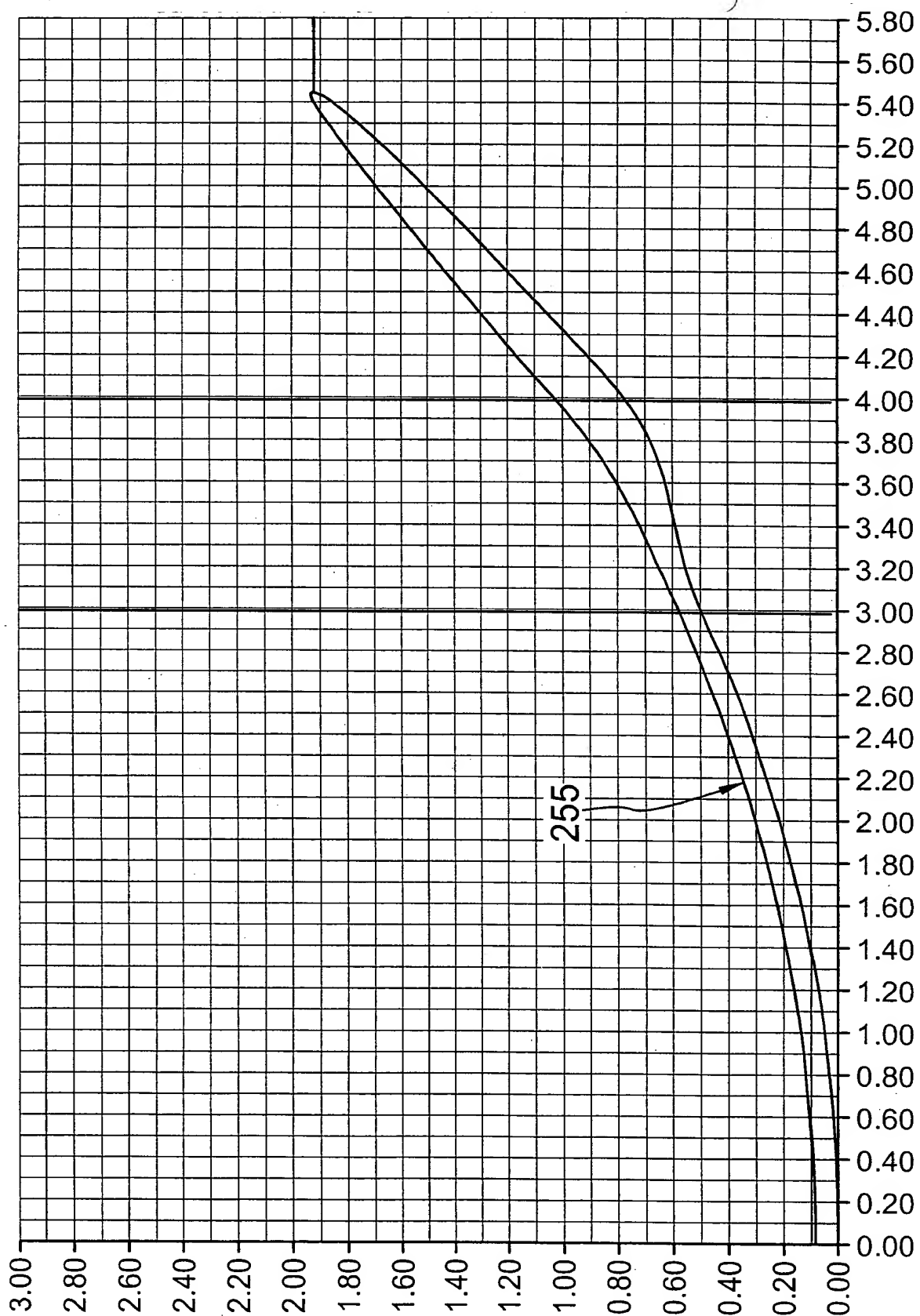
individual & cumulative volumes under lens

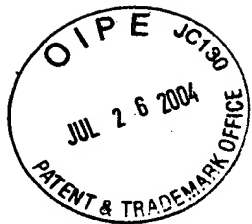




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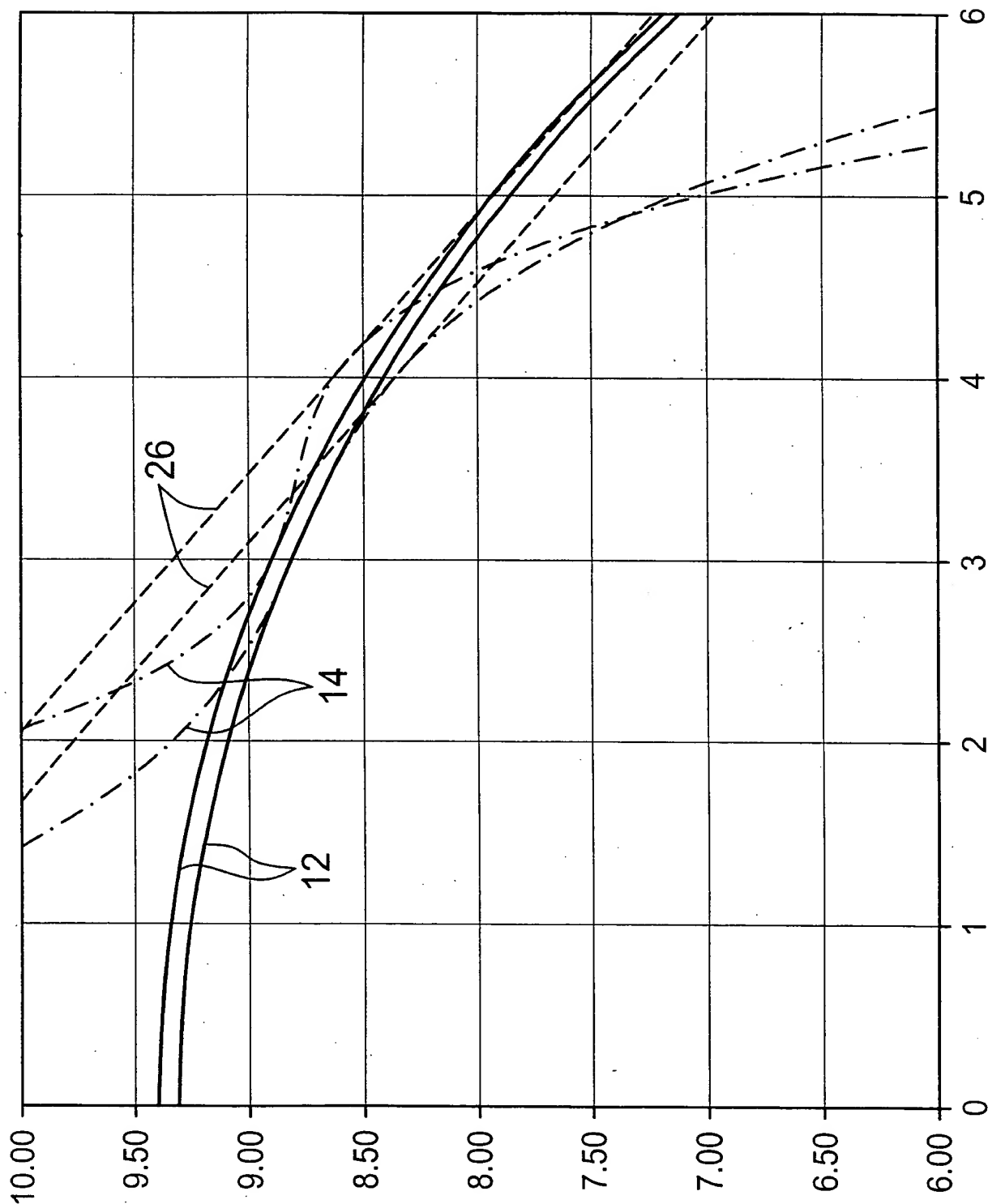
FIG. 27





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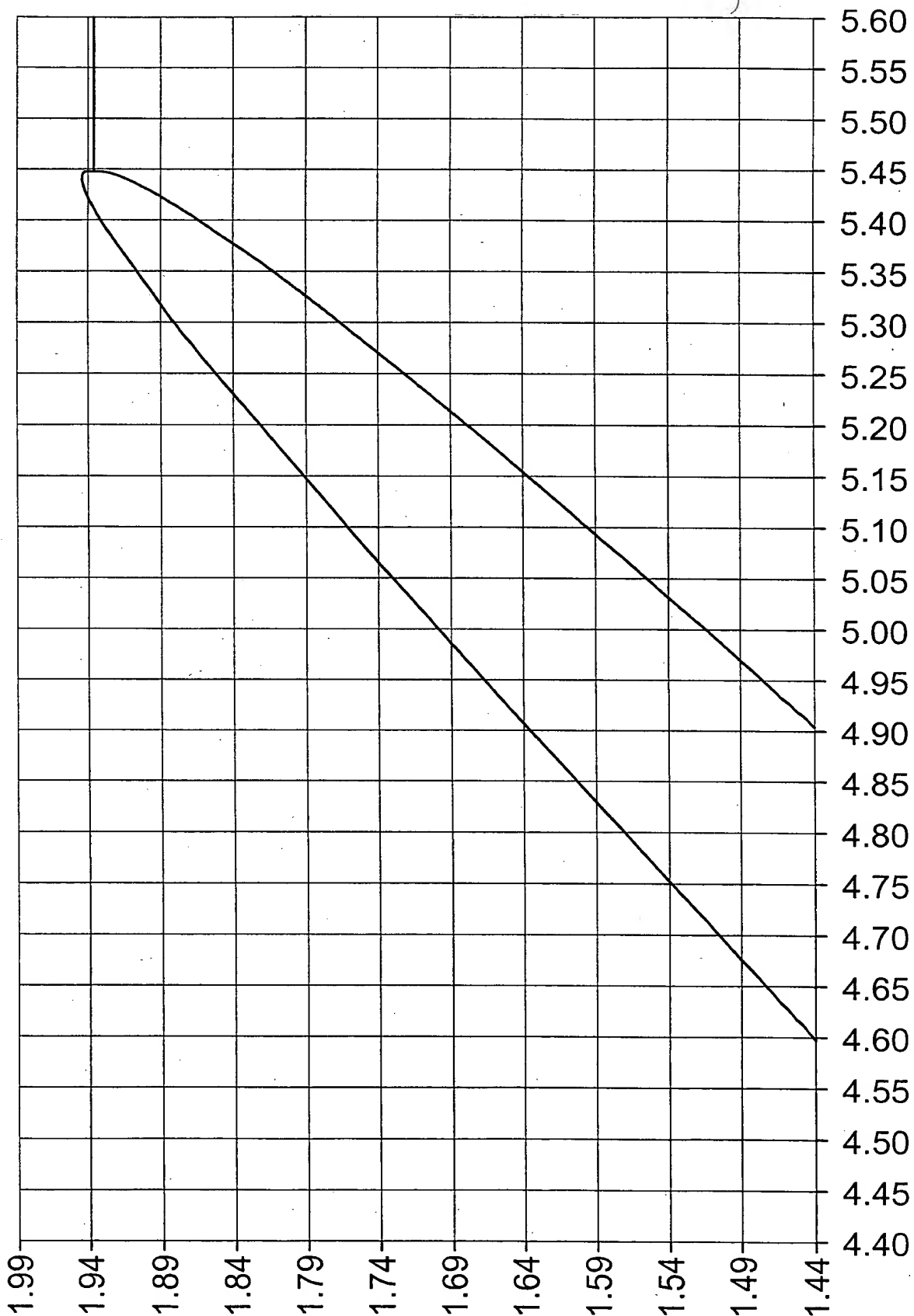
FIG. 28





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FIG. 29



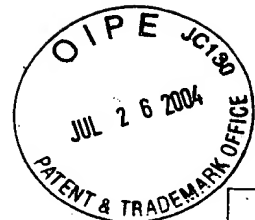


FIG. 30A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/.05)	8.40	Suggested Base Curve is 8.4	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	3.00	5B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	7.75
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.748
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 8.36	Volume between S curve and cornea (uL) = 1.195
$\Delta 1$	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>222</u> 0.10	True center thickness (mm) = 0.110	Volume between pretouch Landing Zone and cornea (uL) = 0.439
$\Delta 2$	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	<u>242</u> 0.10	True offset between landing zones at J2 = 0.100	TOTAL VOLUME = 2.382(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-32.50	Present lens height (mm) above cornea at diameter of tangential touch = 0.027	Diameter where LZ would make tangential touch = 8.99
D	selected lens diameter mm (8.0-12.9/0.1)	10.00	Diameter recommended from HVID = 10	Dia giving desired LZ lift = 10.59
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.475	Recommended depth (mm) S curve for desired correction @6u/D = 0.478 mm	Edge lift at selected diameter = 0.048



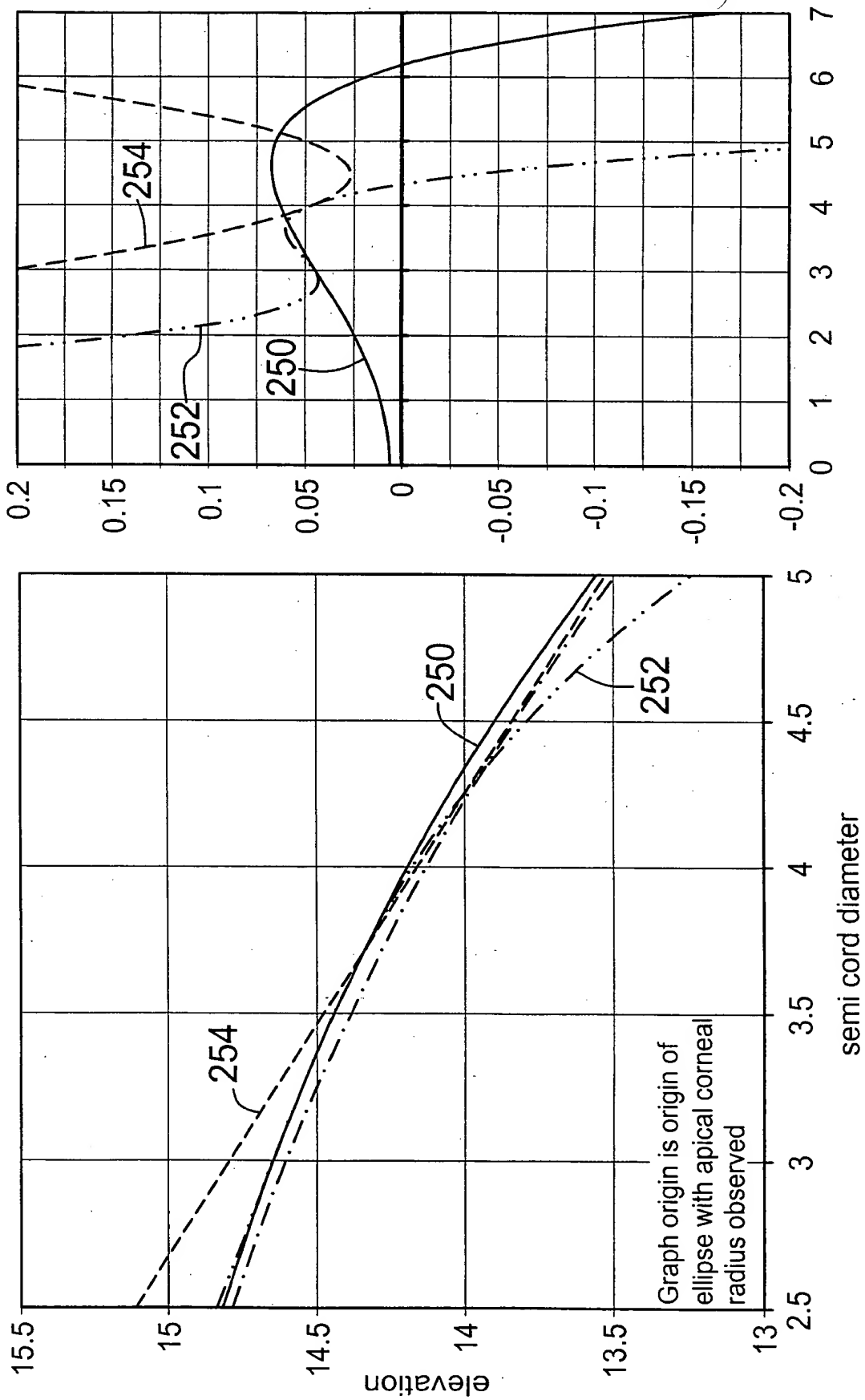
FIG. 30B

BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-3.50	0.7	11
MAT	Actual power (D) difference between bc and apical cornea = -3.37	Desired edge lift (mm) when landed at full Diameter = 0.077	1.45
P	Recommended diameter for lentic = 7.735	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 9.295	0.40	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 9.400	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS-max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.047	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	0.25	0.01



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FIG. 31

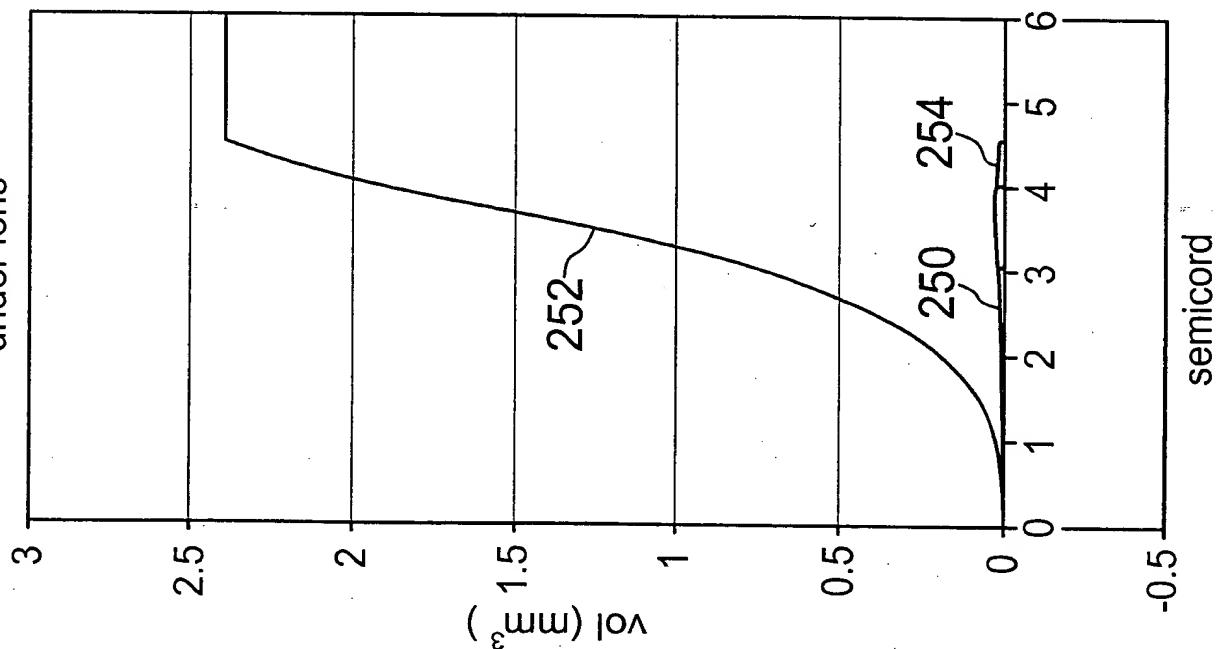




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FIG. 32

individual & cumulative volumes
under lens



individual & cumulative volumes under lens

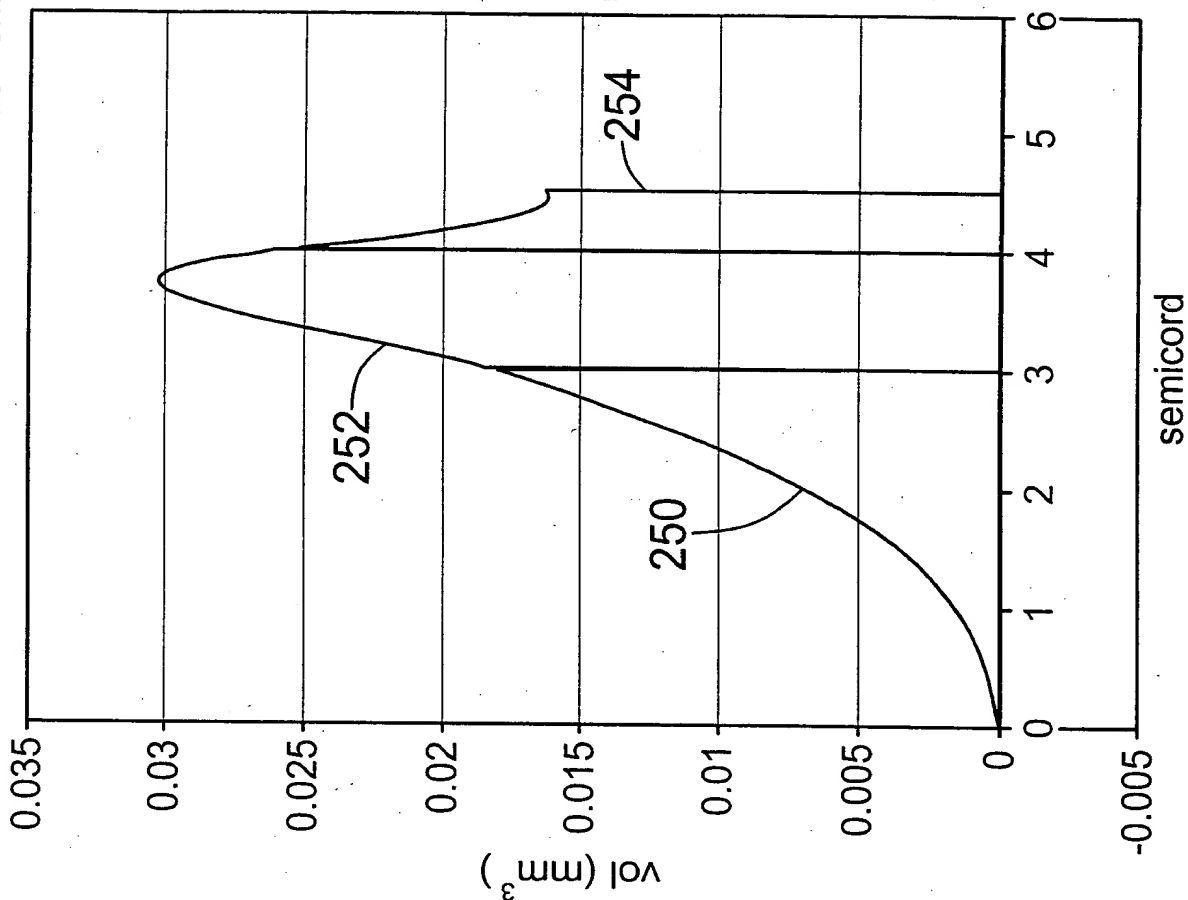
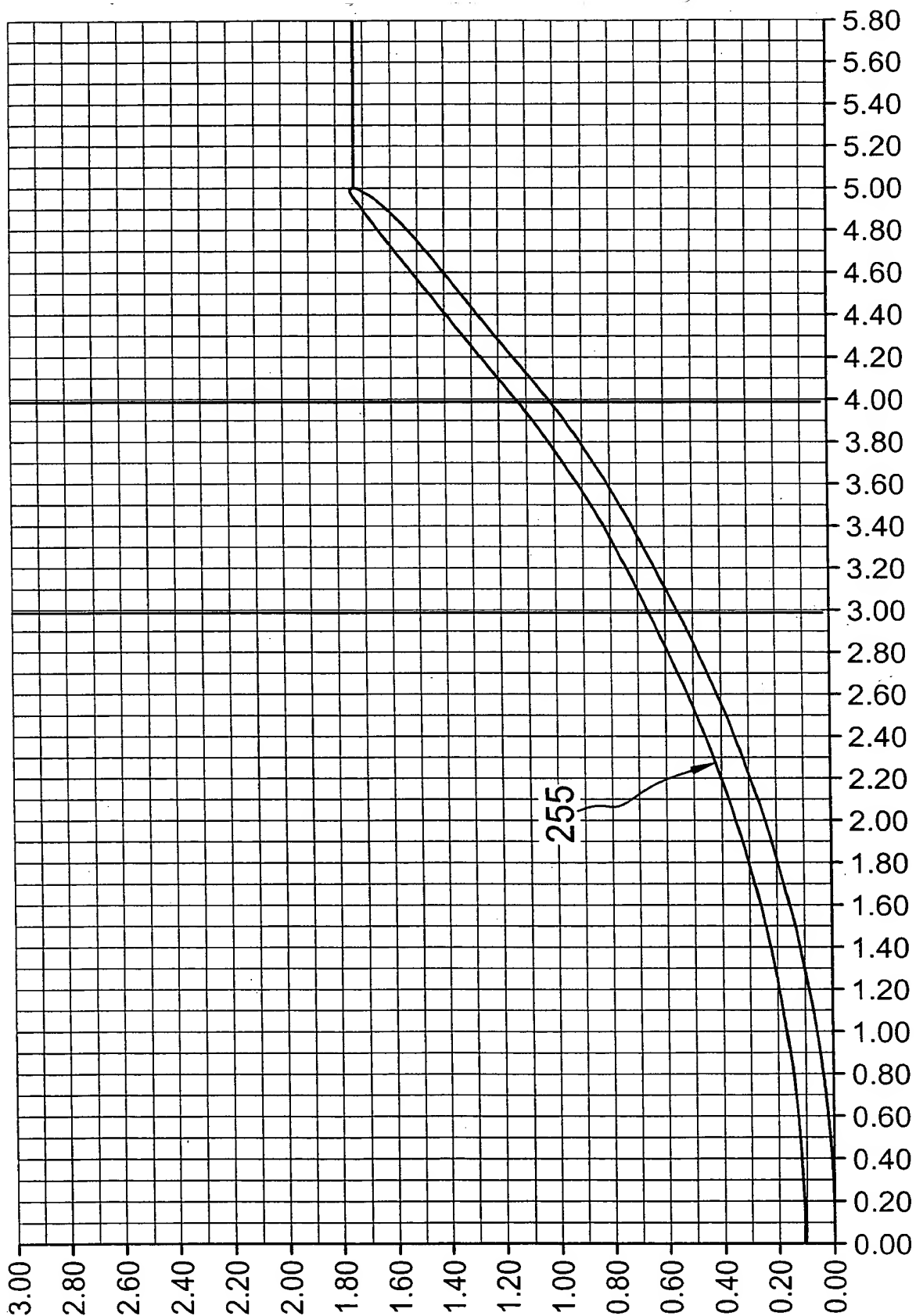




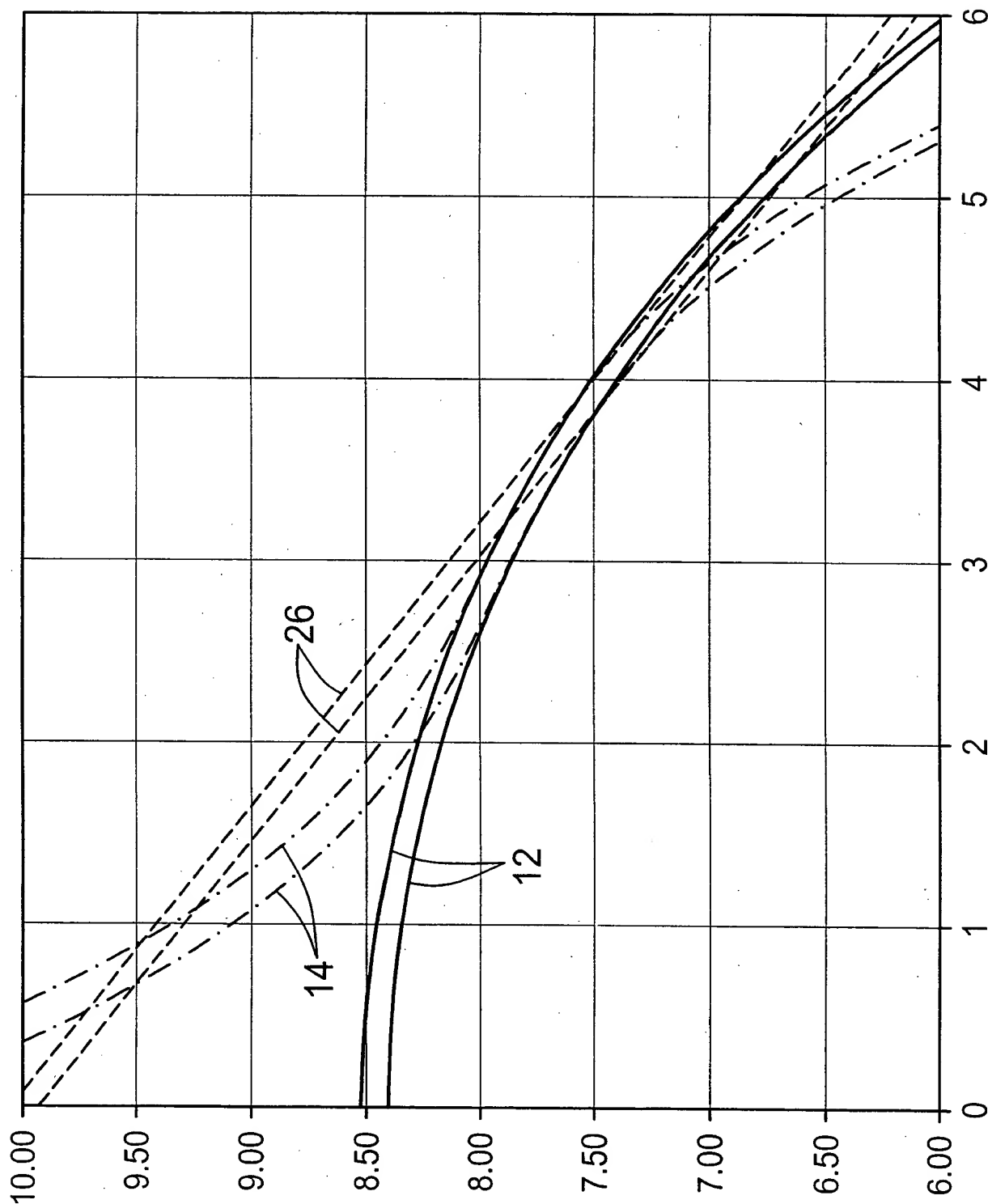
FIG. 33





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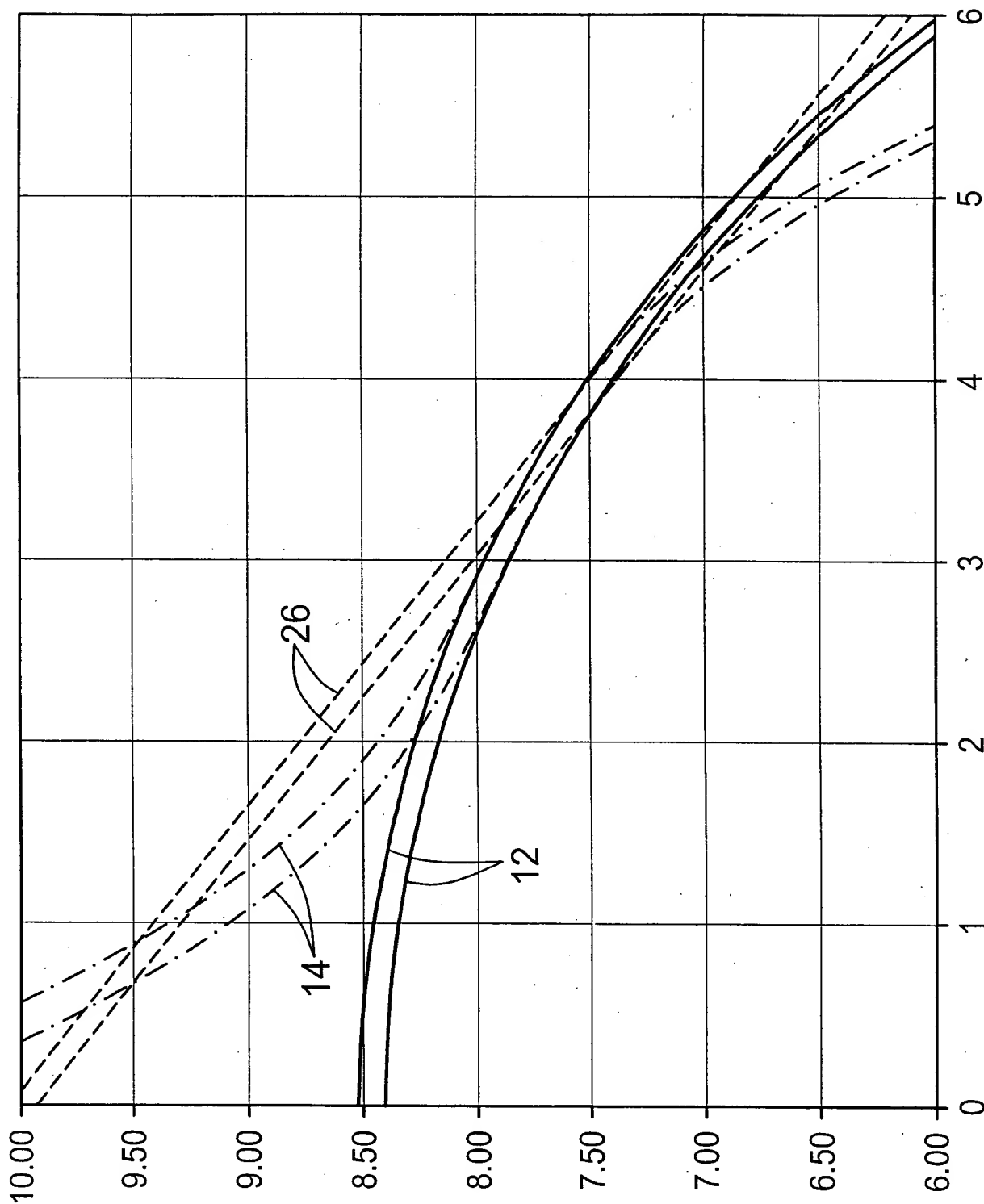
FIG. 34





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FIG. 34



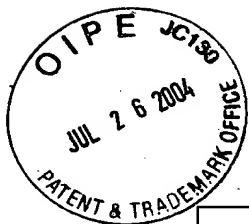


FIG. 35A

BC	selected bc (6.9-10.4/0.1) x 208 (7.70-9.1/0.05)	7.50	Suggested Base Curve is 7.5	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	210 2.50	5B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.50	EYE	7.8
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.298
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 7.49	Volume between S curve and cornea (uL) = 1.383
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	0.14	True center thickness (mm) = 0.149	Volume between pretouch Landing Zone and cornea (uL) = 0.491
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.18	True offset between landing zones at J2 = 0.180	246 TOTAL VOLUME = 2.171(uL)
A	Angle of the landing zone (-25.5 to -50.0/5)	244 -35.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.024	Diameter where LZ would make tangential touch = 9.08
D	selected lens diameter mm (8.0-12.9/0.1)	10.00	Diameter recommended from HVID = 10.9	Dia giving desired LZ lift = 10.52
SD	Selected depth of the S curve mm (.15-1.0/0.05) x (0.3-0.65/0.025) use next smaller than est.	0.636	Recommended depth (mm) S curve for desired correction @6u/D = 0.646 mm	Edge lift at selected diameter = 0.047

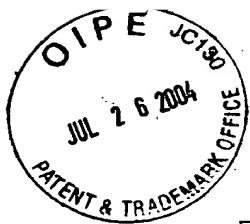
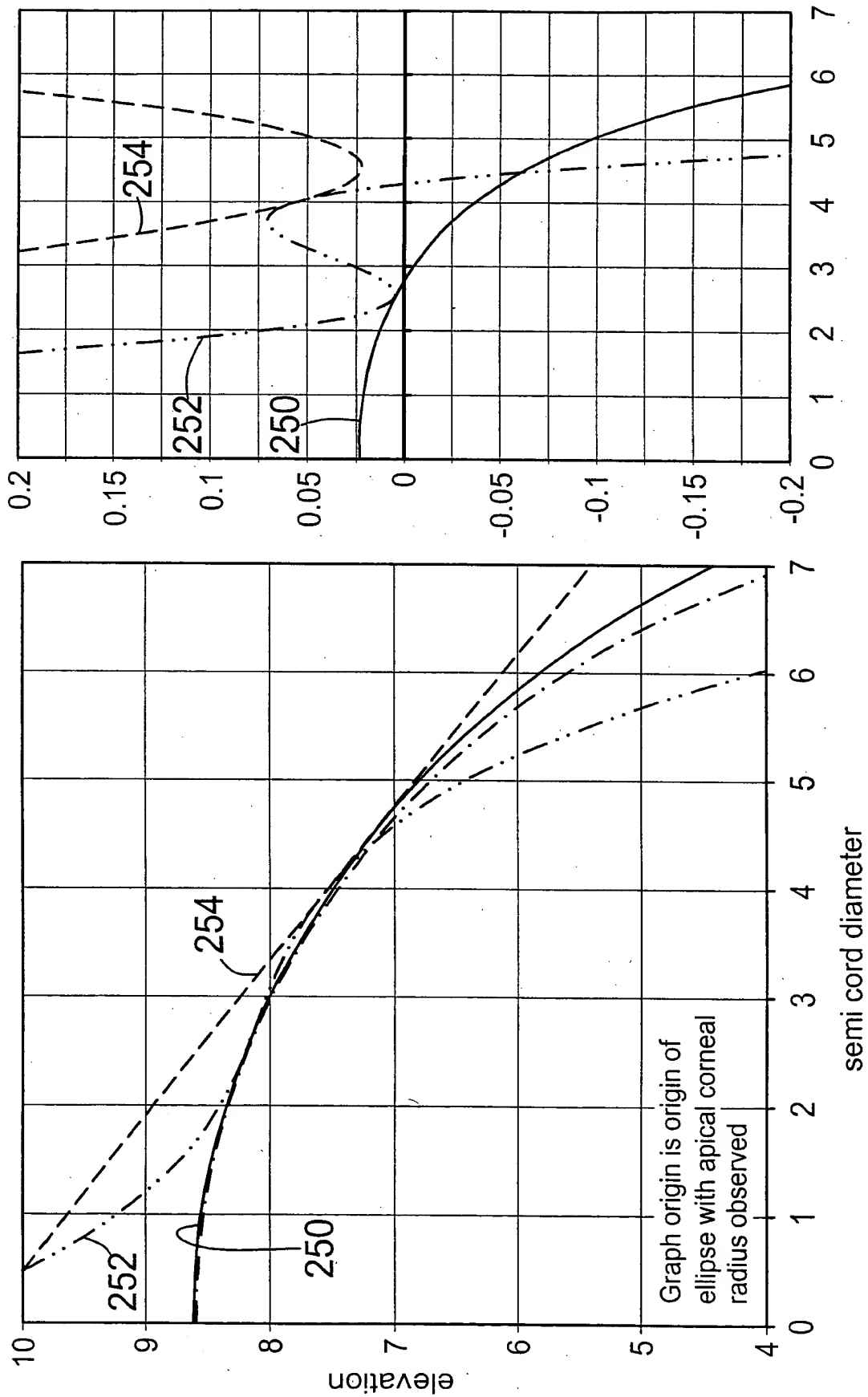


FIG. 35B

BC	200		
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	2.00	0.3	11.9
MAT	Actual power (D) difference between bc and apical cornea = 1.73	Desired edge lift (mm) when landed at full Diameter = 0.062	1.45
P	Recommended diameter for lentic = 5.737	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 8.482	0.40	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 8.553	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS-max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.056	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.024	0.25	0.01



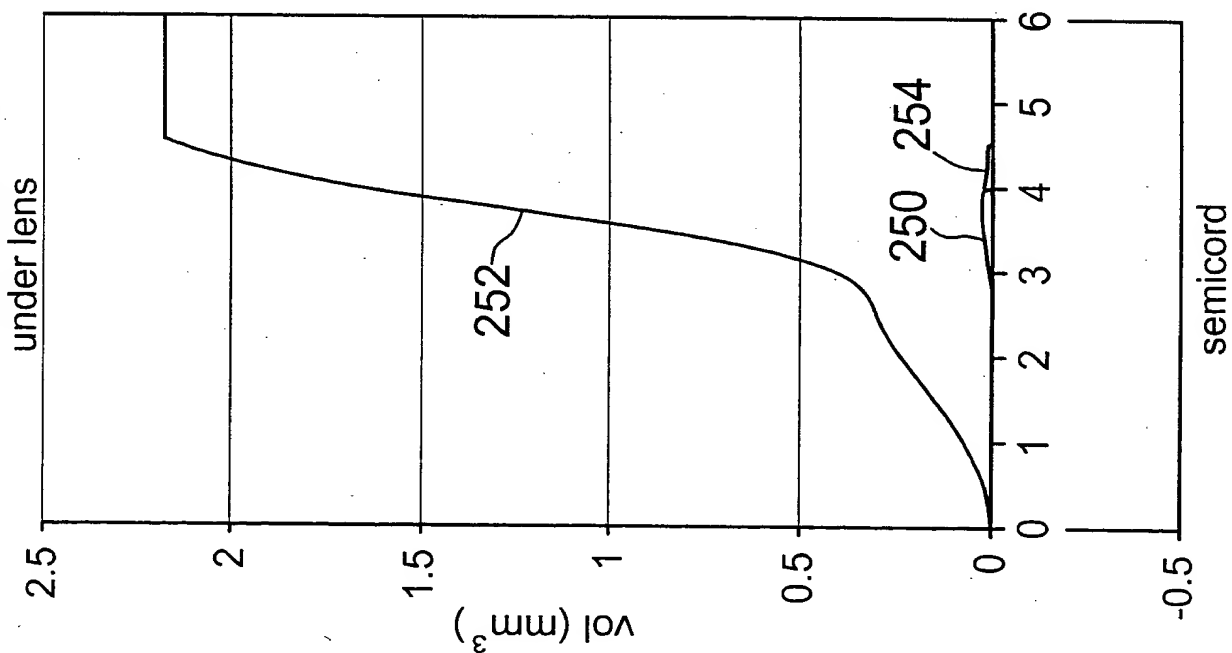
FIG. 36



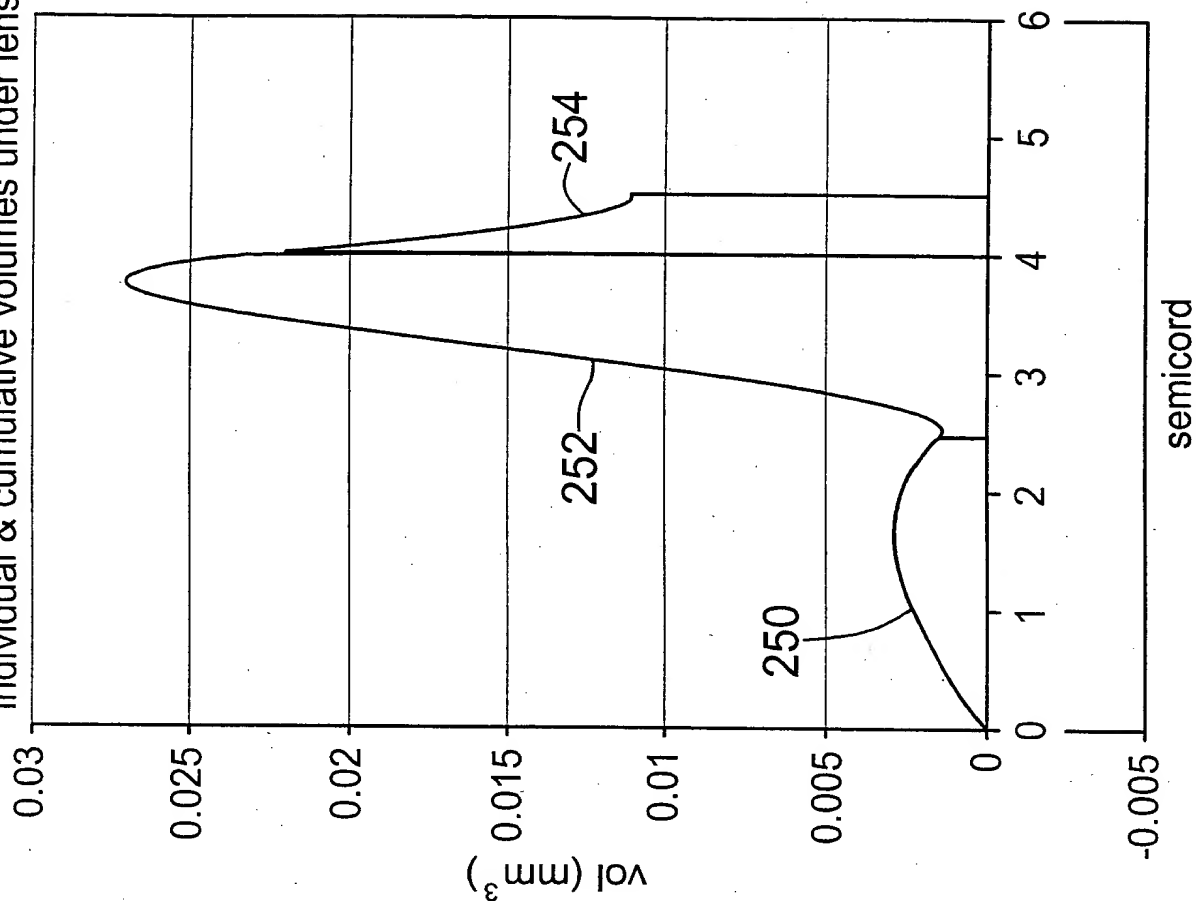


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individual & cumulative volumes under lens



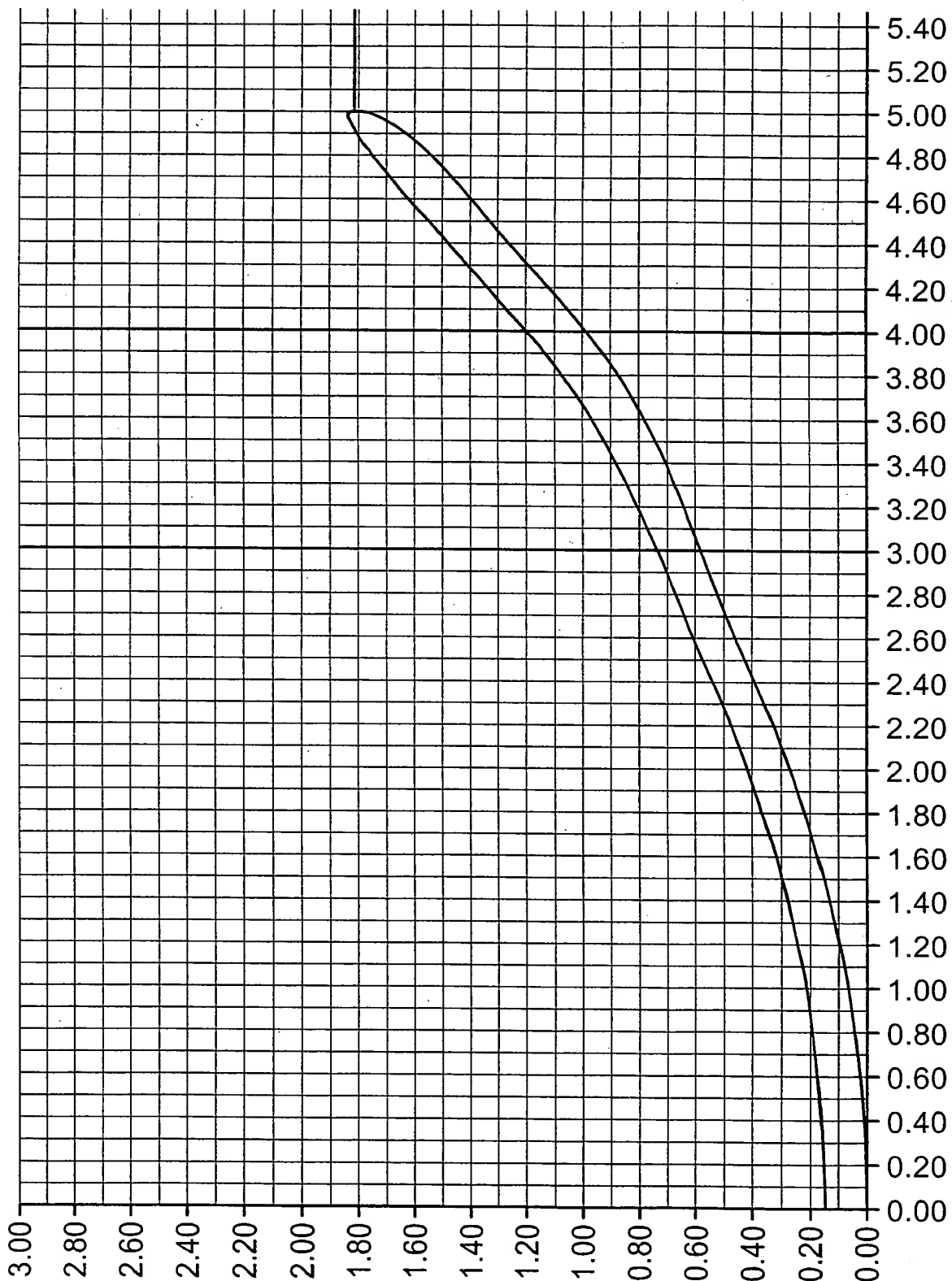
individual & cumulative volumes under lens





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FIG. 38





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FIG. 39

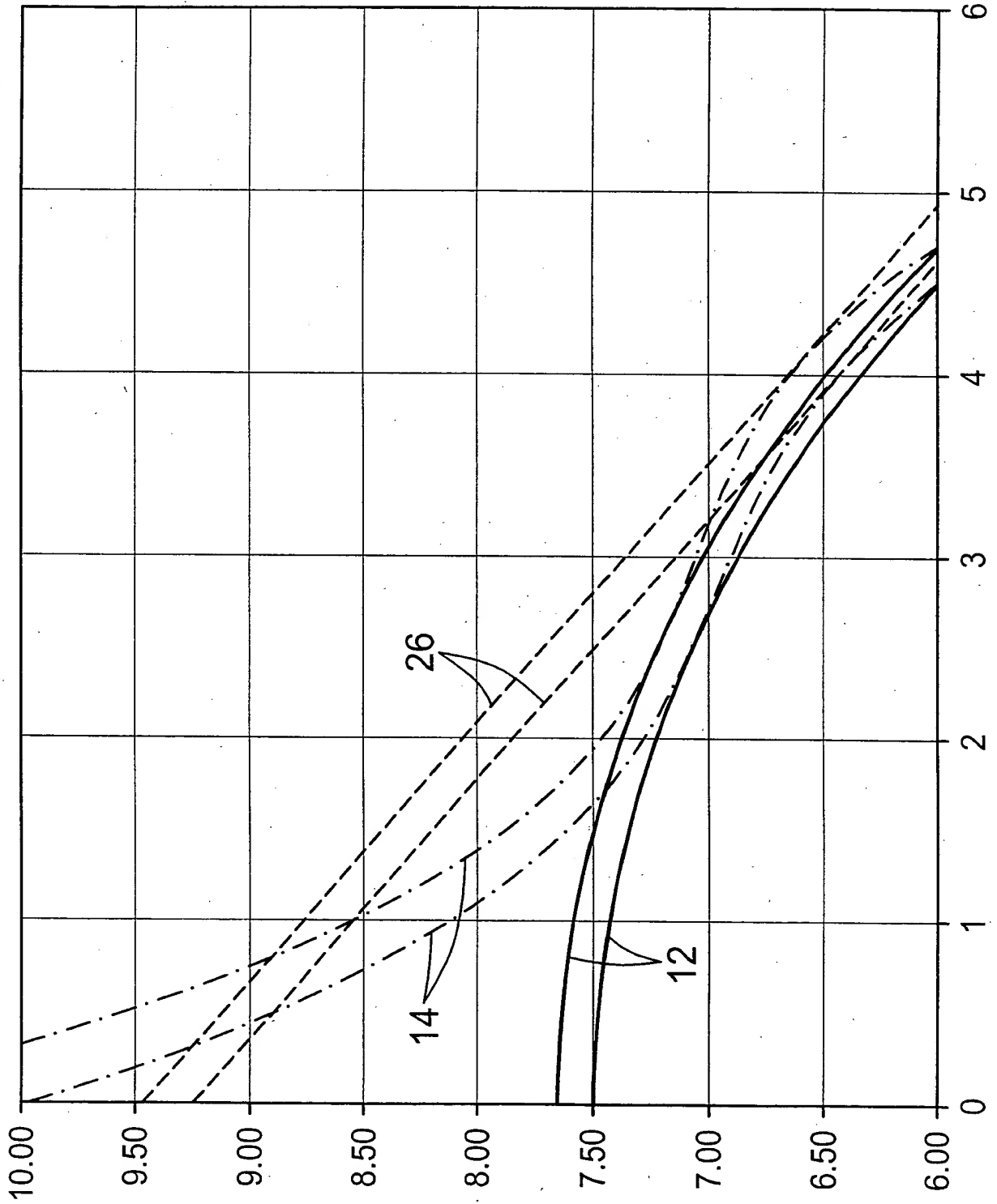
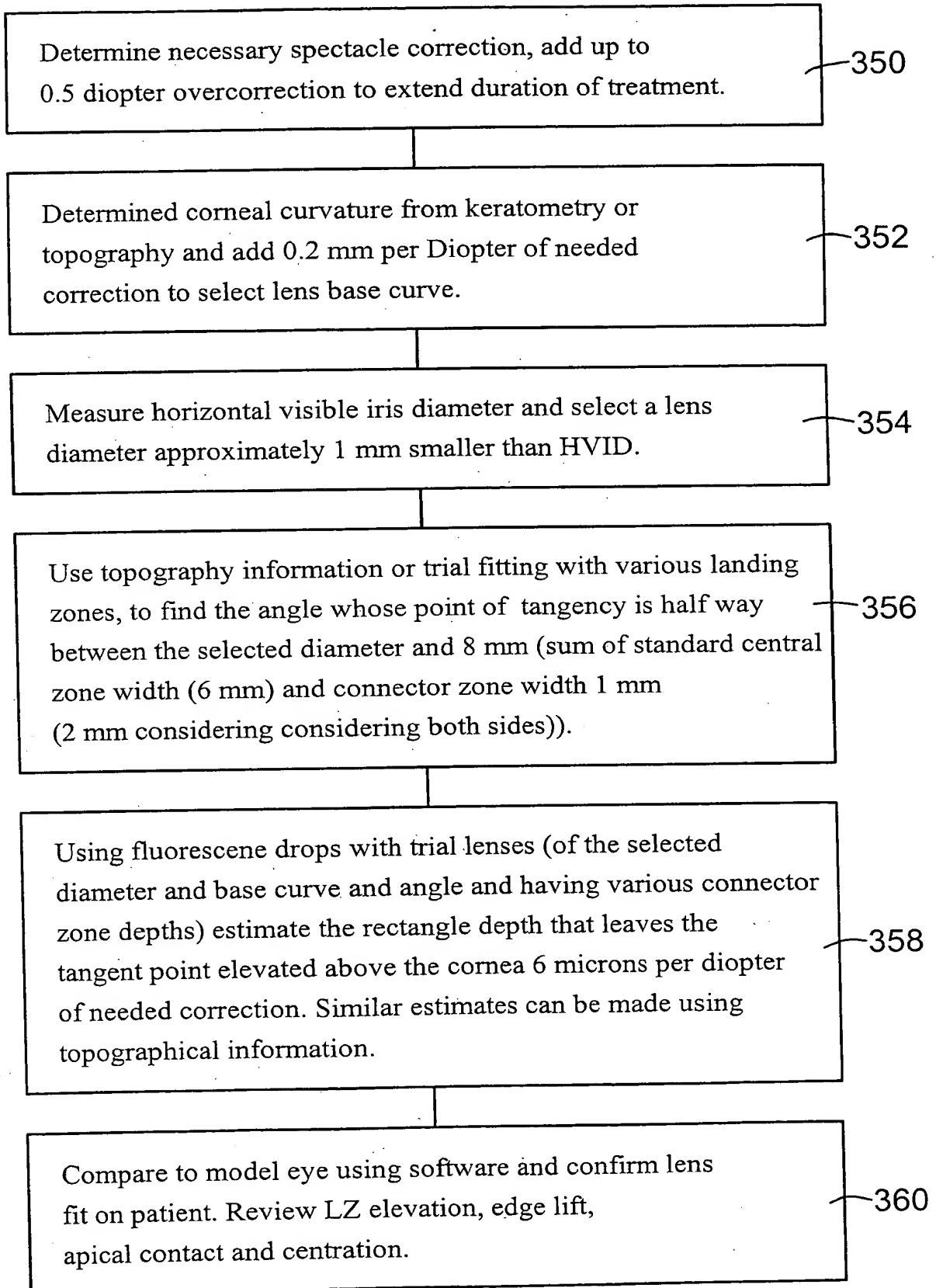




FIG. 40



This diagram illustrates the geometry of a lens system. It shows two concentric circular surfaces, labeled 450 (outer) and 452 (inner). The radius of curvature for both surfaces is denoted as R. Two light rays are shown originating from points on the outer surface 450 and passing through the inner surface 452. Key geometric features include:
 - A vertical dashed line representing the optical axis.
 - Points J2, x1, and x2 marked on the horizontal centerline.
 - Distances H1 and H2 measured vertically from the centerline to specific points on the ray paths.
 - Angles LZA (Lens Zone Angle) indicated at several locations.
 - Horizontal distances ΔW and ΔRZD.
 - Vertical distances y1, y2, and ΔH.
 - Labels "Touch dia. 1" and "Touch dia. 2" indicating specific diameters along the horizontal axis.
 - Other labels include 454, 456, and 458 pointing to various parts of the lens structure.

FIG. 42

